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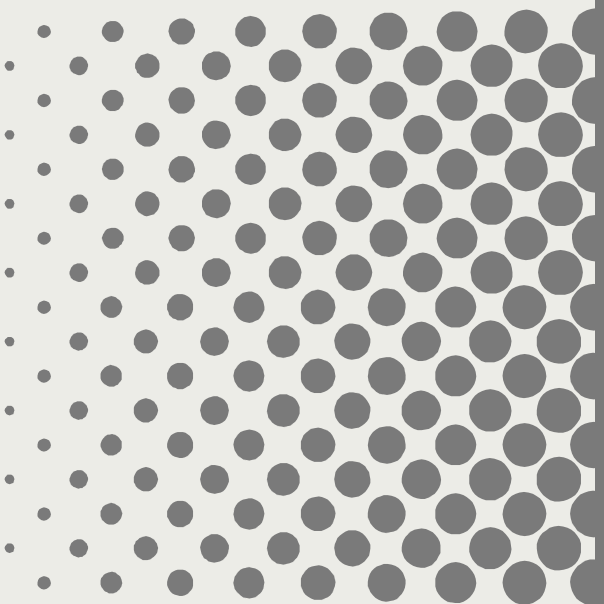
PRÄZISA

Emergency Lighting

SICURO

LOGICA 230/24

OPERATING INSTRUCTION



centralized supply system
decentralized supply system

Date:	08.02.2019
Software version – S-230Z:	1.28.1.28
Software version – S-24Z / S-24G:	1.61.1.61

English

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Information of the operating instruction

Important instructions

According to EN 50110-1:2004-11 any work on the installation has to be executed by qualified electricians only.

Other activities described in this operating instruction have to be executed only by persons who:

- have been instructed by qualified persons.
- have fully understood their tasks and the functions of the installation.
- are under observation and being checked regularly by qualified persons.

Please observe the local rules and regulations.

Symbol explanation

The following symbols must be observed.

Attention:
Indicates hazards that may be the cause for damage to human, plant or environment as well as very important instructions.

Note:
Provides information and advice for navigating within the described plant, components or functions.

Manufacturer, further documents

Manufacturer:

Beghelli PRÄZISA GmbH

Internet: www.beghelli.de
E-mail: kontakt@beghelli.de

Further documents:

Catalogues
SICURO

The catalogue contents are also available over the internet – www.beghelli.de.

CD-ROM
Catalogue CD

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Type codes

Designation:	Station type:	Mains monitoring:	Mains supply:	Battery supply:	Mains output voltage:	Battery output voltage:
SICURO-230Z	main station	3~	400 V AC 50/60 Hz 3~	216 V DC	230 V AC 50/60 Hz 1~	216 V DC
SICURO-230Z	main station	1~	230 V AC 50/60 Hz 1~	216 V DC	230 V AC 50/60 Hz 1~	216 V DC
SICURO-230Z	sub station	3~	400 V AC 50/60 Hz 3~	216 V DC from main station	230 V AC 50/60 Hz 1~	216 V DC
SICURO-230Z	sub station	1~	230 V AC 50/60 Hz 1~	216 V DC from main station	230 V AC 50/60 Hz 1~	216 V DC
SICURO-230Z	sub station	/	230 V AC 50/60 Hz 1~ from main station, combined with battery supply	216 V DC from main station, combined with mains supply	230 V AC 50/60 Hz 1~	216 V DC
SICURO-24Z	sub station	/	230 V AC 50/60 Hz 1~ from main station, combined with battery supply	216 V DC from main station, combined with mains supply	24 V DC	24 V DC
SICURO-24G	main station	1~	230 V AC 50/60 Hz 1~	24 V DC	24 V DC	24 V DC

Attention: **The specified mains and battery output voltages are only valid if output cards of the types AKS 1/2/4 EÜ/SÜ, eAK 2x32 EÜ/SÜ resp. AK24V are used.**

Mains output voltage:

> The mains output voltage designates the voltage with which the output circuits of an emergency light station can be operated if no supply failure is present.

> The mains output voltage designates the voltage with which the output circuits of an emergency light station are operated if a partial supply failure is present.

Battery output voltage:

> The battery output voltage designates the voltage with which the output circuits of an emergency light station are operated if a general supply failure is present.

> The battery output voltage designates the voltage with which the output circuits of an emergency light station are operated if a function test, a duration test, an insulation test or a read-in is executed.

Preface

This operating instruction describes the input and output of data using the internal EVA unit of an emergency light station. Furthermore device functions and device parameters are documented. The provided information conforms to the functional scope of mentioned software versions. Additional information can be requested from the above mentioned address.

The technical content of this operating instruction is correct at time of print.
Subject to change without prior notification.

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General operating of the device – EVA units and further equipment

EVA unit (white, RAL9003) – 321004014:

EVA unit for input, process and output purposes of SICURO systems. The colour of the cover is white (RAL9003).

"1": cover (white, RAL9003)

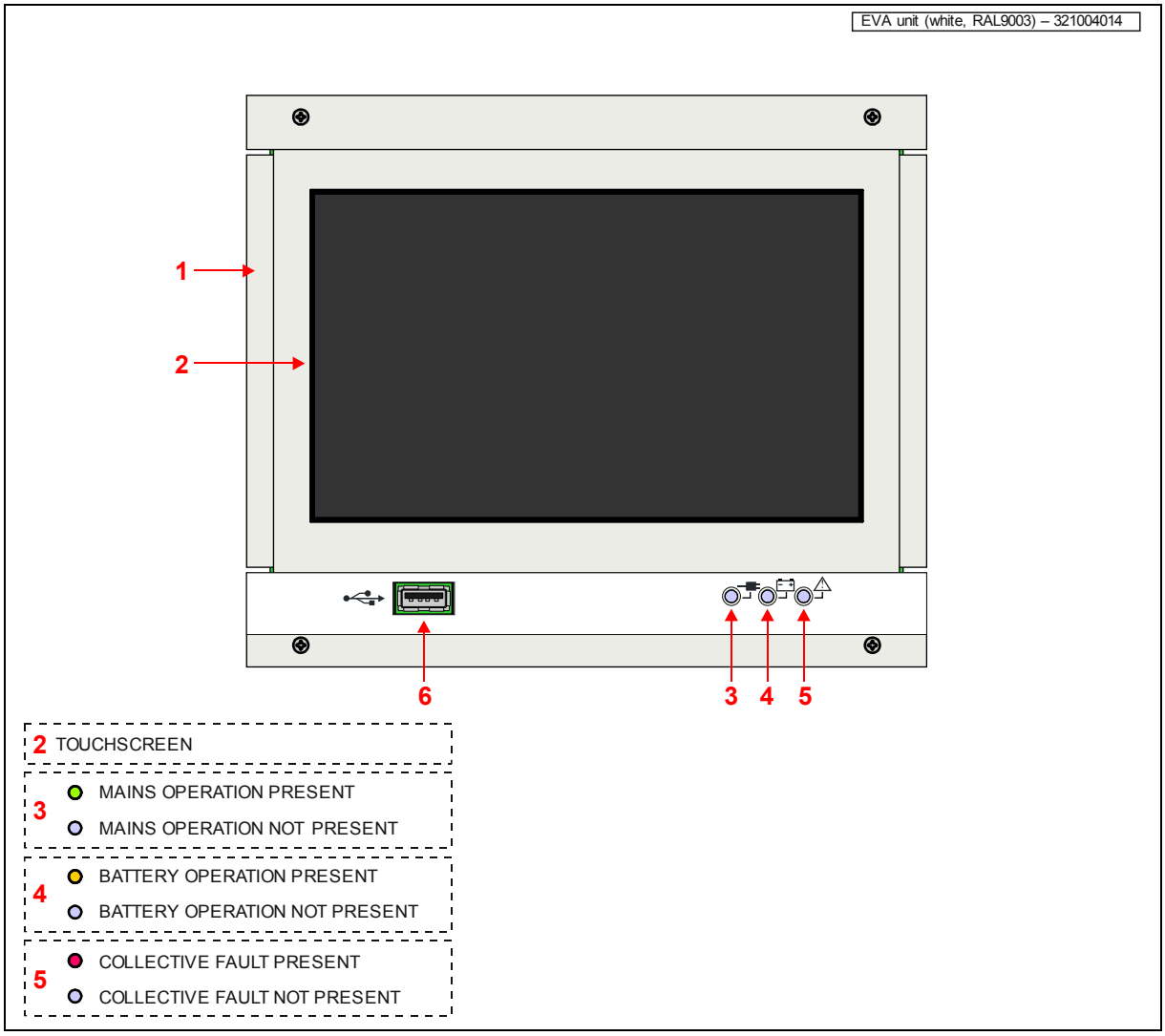
"2": touchscreen

"3": optical indication for mains operation (green)
indication on – green: mains operation present
indication off: mains operation not present

"4": optical indication for battery operation (orange)
indication on – orange: battery operation present
indication off: battery operation not present

"5": optical indication for collective fault (red)
indication on – red: collective fault present
indication off: collective fault not present

"6": USB port (type: A)



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EVA unit (grey, RAL7016) – 321004015:

EVA unit for input, process and output purposes of SICURO systems. The colour of the cover is grey (RAL7016).

"1": cover (grey, RAL7016)

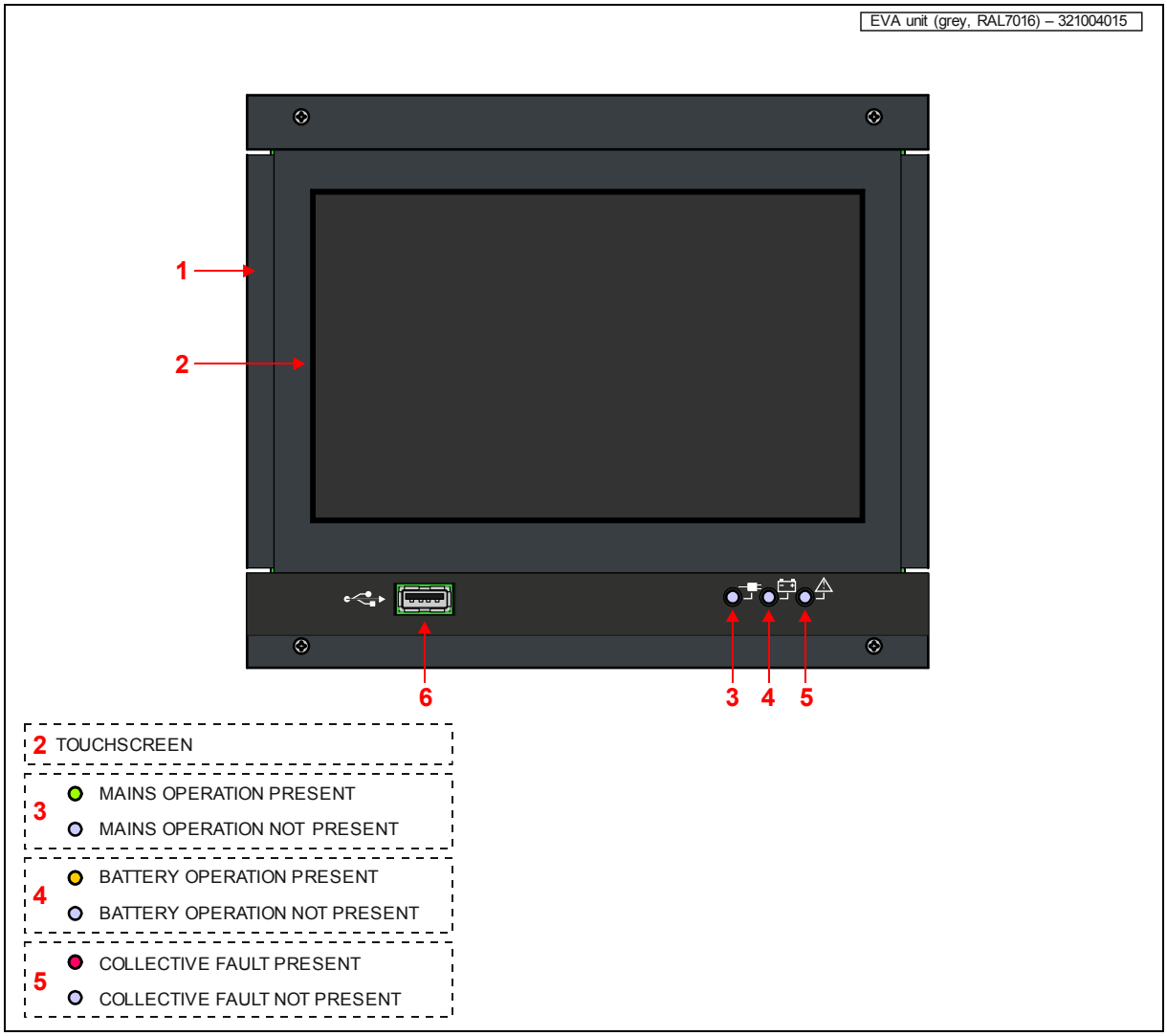
"2": touchscreen

"3": optical indication for mains operation (green)
indication on – green: mains operation present
indication off: mains operation not present

"4": optical indication for battery operation (orange)
indication on – orange: battery operation present
indication off: battery operation not present

"5": optical indication for collective fault (red)
indication on – red: collective fault present
indication off: collective fault not present

"6": USB port (type: A)



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I/O card I/O-HS – 292701100:

I/O card for distribution of the connections for main stations of SICURO-230Z systems.

"1": button "Service PIN" as function extension for special applications

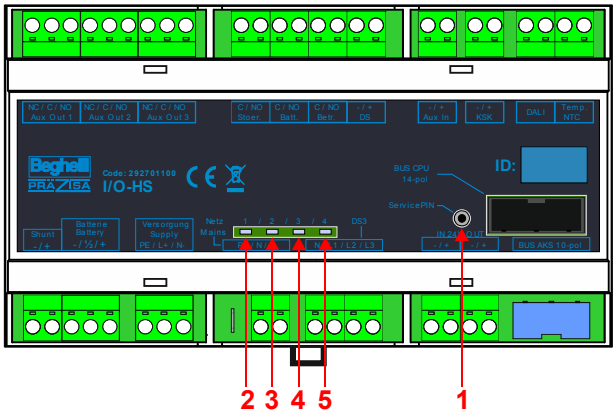
"2": optical indication for device supply voltage of 24 V DC on the I/O card (green)
indication on: device supply voltage present
indication off: device supply voltage not present

"3": optical indication for supply voltages / test procedures
(green / orange / red)
indication on – green: supply voltages present, no test procedure
indication on – orange: mains supply voltage not present or test procedure
indication on – red: battery supply voltage not present
indication off: no supply voltage present

"4": optical indication for communication status TX / RX (CPU port) on the I/O card (red)
indication on: communication status TX present
indication off: communication status RX present

"5": optical indication for internal process voltage of 5 V DC on the I/O card (green)
indication on: process voltage present
indication off: process voltage not present

I/O card I/O-HS – 292701100



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I/O card I/O-US – 292701101:

I/O card for distribution of the connections for sub stations of SICURO-230Z systems.

"1": button "Service PIN" as function extension for special applications

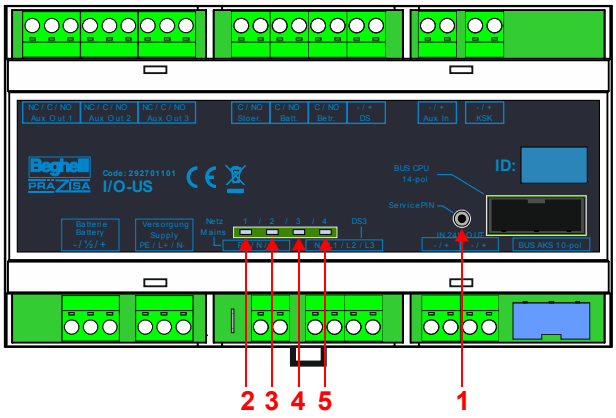
"2": optical indication for device supply voltage of 24 V DC on the I/O card (green)
indication on: device supply voltage present
indication off: device supply voltage not present

"3": optical indication for supply voltages / test procedures
(green / orange / red)
indication on – green: supply voltages present, no test procedure
indication on – orange: mains supply voltage not present or test procedure
indication on – red: battery supply voltage not present
indication off: no supply voltage present

"4": optical indication for communication status TX / RX (CPU port) on the I/O card (red)
indication on: communication status TX present
indication off: communication status RX present

"5": optical indication for internal process voltage of 5 V DC on the I/O card (green)
indication on: process voltage present
indication off: process voltage not present

I/O card I/O-US– 292701101



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I/O card – 292701001:

I/O card for distribution of the connections of SICURO-24Z systems.

"1": optical indication for internal process voltage of 5 V DC on the I/O card (green)
indication on: process voltage present
indication off: process voltage not present

"2": optical indication, not used (green)

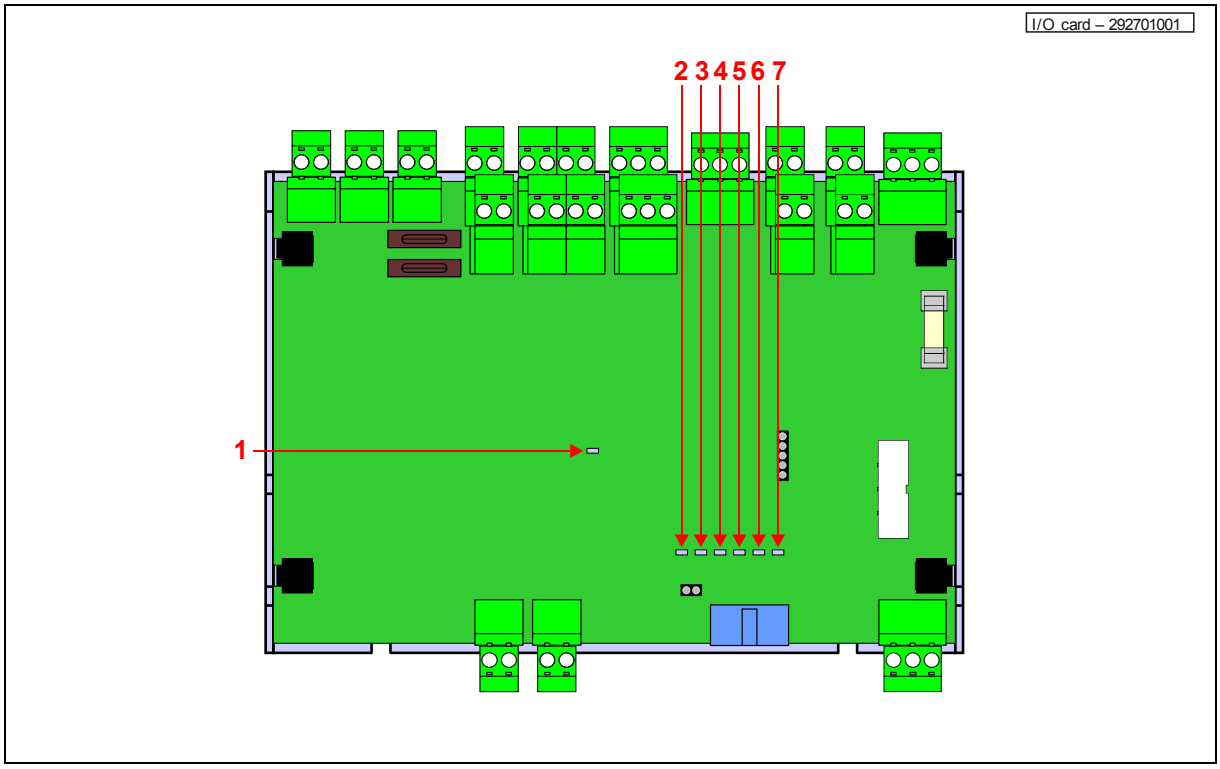
"3": optical indication for communication status DTR (CPU port) on the I/O card (yellow)
indication on: communication status DTR present
indication off: communication status DTR not present

"4": optical indication for communication status TX / RX (CPU port) on the I/O card (red)
indication on: communication status TX present
indication off: communication status RX present

"5": optical indication for service purposes (red)

"6": optical indication, not used (red)

"7": optical indication, not used (red)



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I/O card – 292701002:

I/O card for distribution of the connections of SICURO-24G systems. The I/O card 292701002 is substituted by the I/O card 292701002#1.

"1": optical indication for internal process voltage of 5 V DC on the I/O card (green)
indication on: process voltage present
indication off: process voltage not present

"2": optical indication for fully charged battery supply (green)
indication on: battery supply fully charged
indication off: battery supply not fully charged

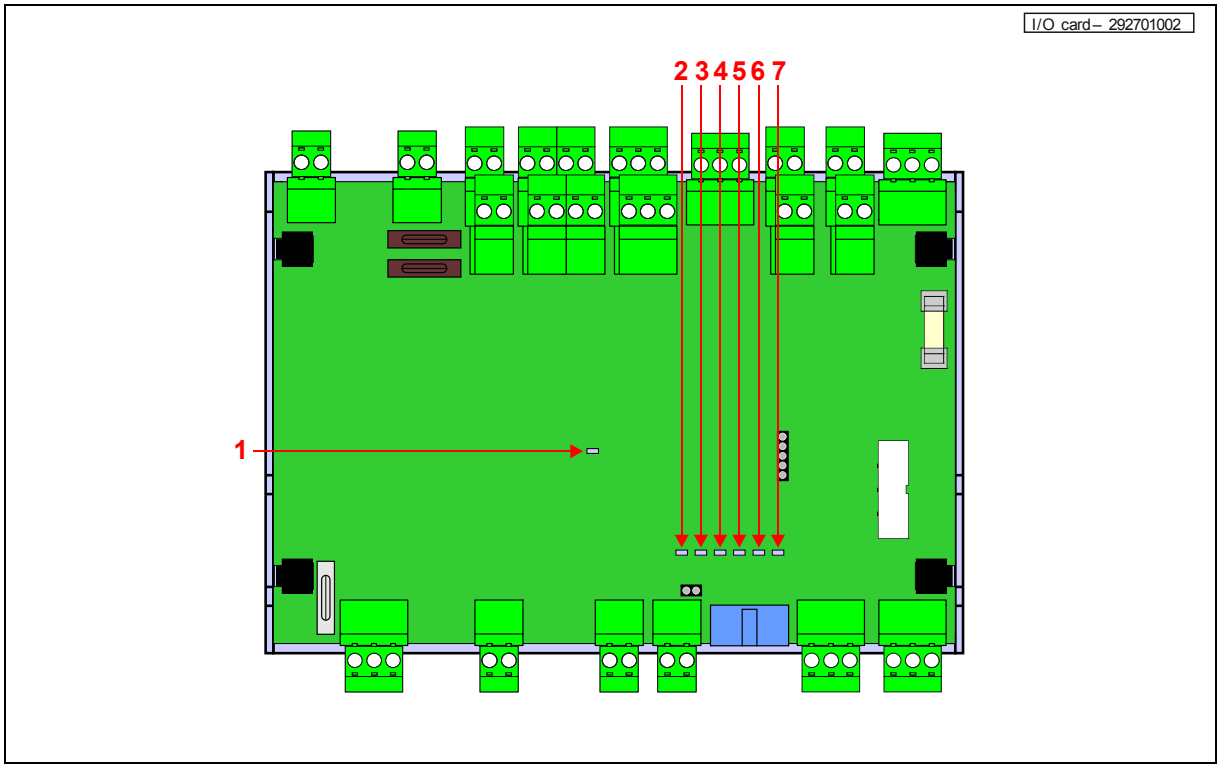
"3": optical indication for communication status DTR (CPU port) on the I/O card (yellow)
indication on: communication status DTR present
indication off: communication status DTR not present

"4": optical indication for communication status TX / RX (CPU port) on the I/O card (red)
indication on: communication status TX present
indication off: communication status RX present

"5": optical indication for service purposes (red)

"6": optical indication for float charge on battery supply (red)
indication on: float charge present
indication off: float charge not present

"7": optical indication for boost charge on battery supply (red)
indication on: boost charge present
indication off: boost charge not present



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I/O card – 292701002#1:

I/O card for distribution of the connections of SICURO-24G systems. The I/O card 292701002#1 substitutes the I/O card 292701002.

"1": optical indication for internal process voltage of 5 V DC on the I/O card (green)
indication on: process voltage present
indication off: process voltage not present

"2": optical indication for fully charged battery supply (green)
indication on: battery supply fully charged
indication off: battery supply not fully charged

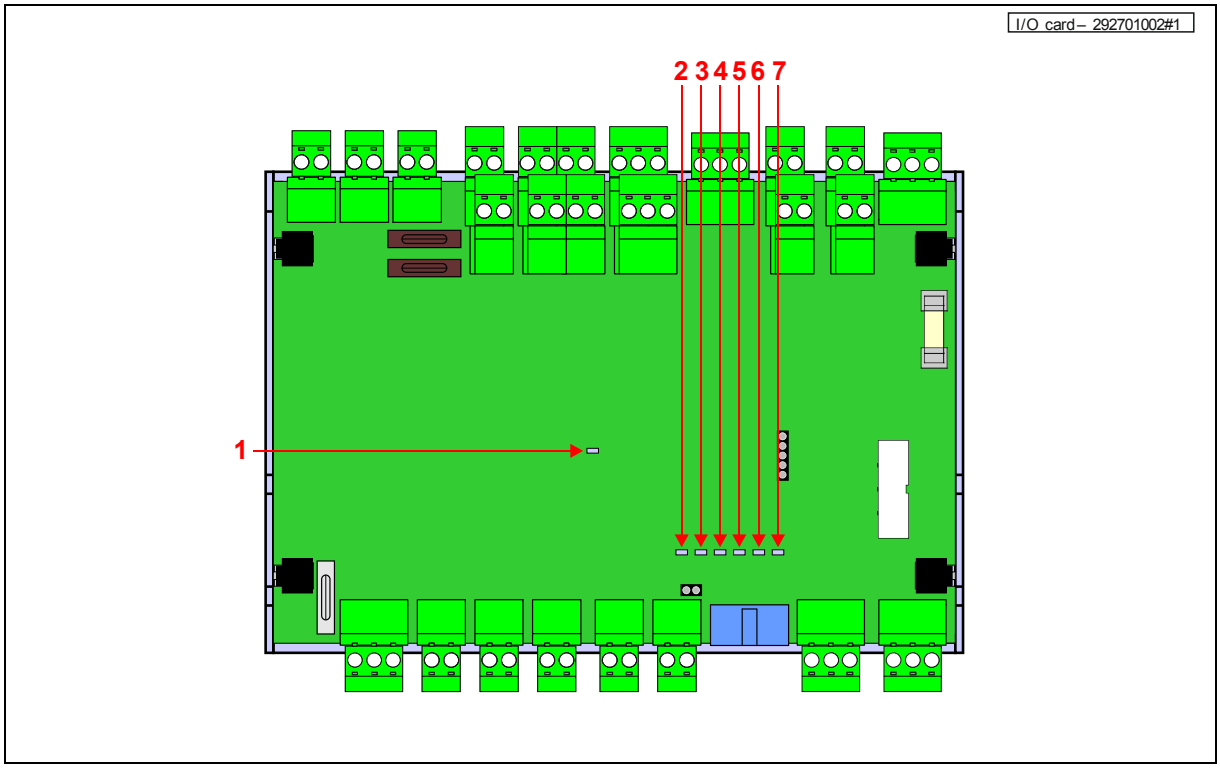
"3": optical indication for communication status DTR (CPU port) on the I/O card (yellow)
indication on: communication status DTR present
indication off: communication status DTR not present

"4": optical indication for communication status TX / RX (CPU port) on the I/O card (red)
indication on: communication status TX present
indication off: communication status RX present

"5": optical indication for service purposes (red)

"6": optical indication for float charge on battery supply (red)
indication on: float charge present
indication off: float charge not present

"7": optical indication for boost charge on battery supply (red)
indication on: boost charge present
indication off: boost charge not present



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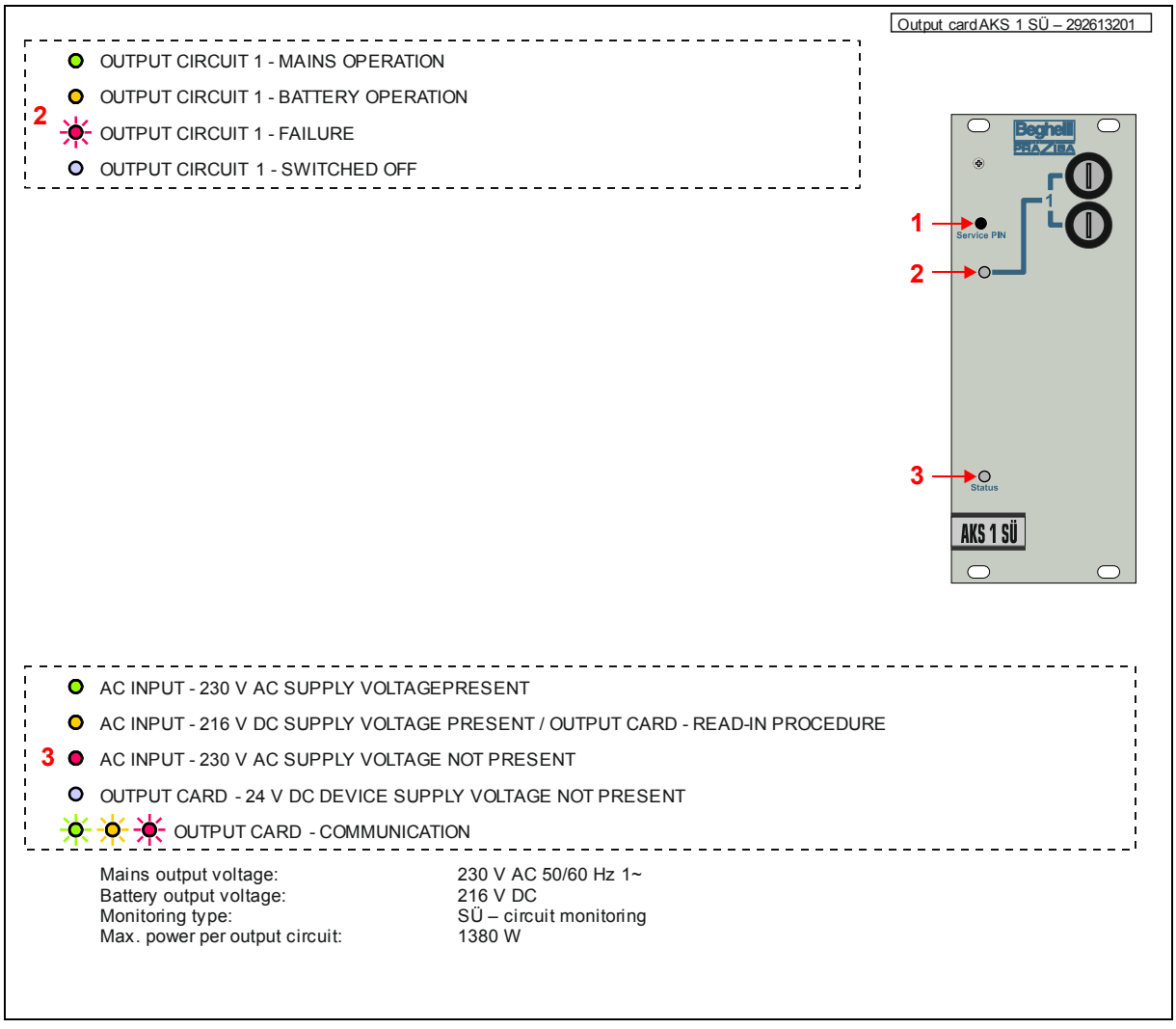
Output card AKS 1 SÜ – 292613201:

Output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" for read-in of output cards

"2": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"3": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication



Mains output voltage:	230 V AC 50/60 Hz 1~
Battery output voltage:	216 V DC
Monitoring type:	SÜ – circuit monitoring
Max. power per output circuit:	1380 W

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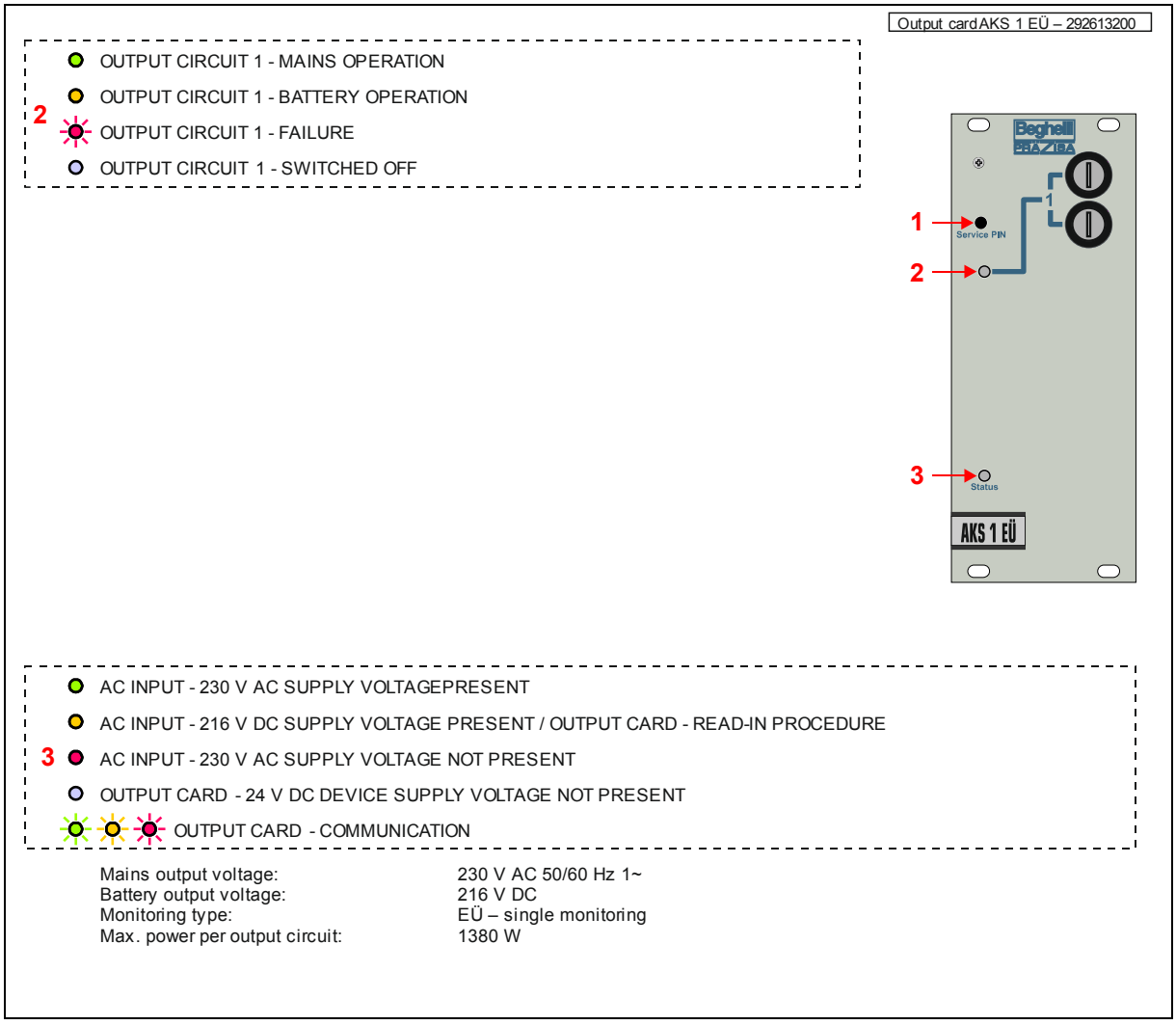
Output card AKS 1 EÜ – 292613200:

Output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" for read-in of output cards

"2": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"3": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication



Mains output voltage:	230 V AC 50/60 Hz 1~
Battery output voltage:	216 V DC
Monitoring type:	EÜ – single monitoring
Max. power per output circuit:	1380 W

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Output card AKS 2 SÜ – 292613203:

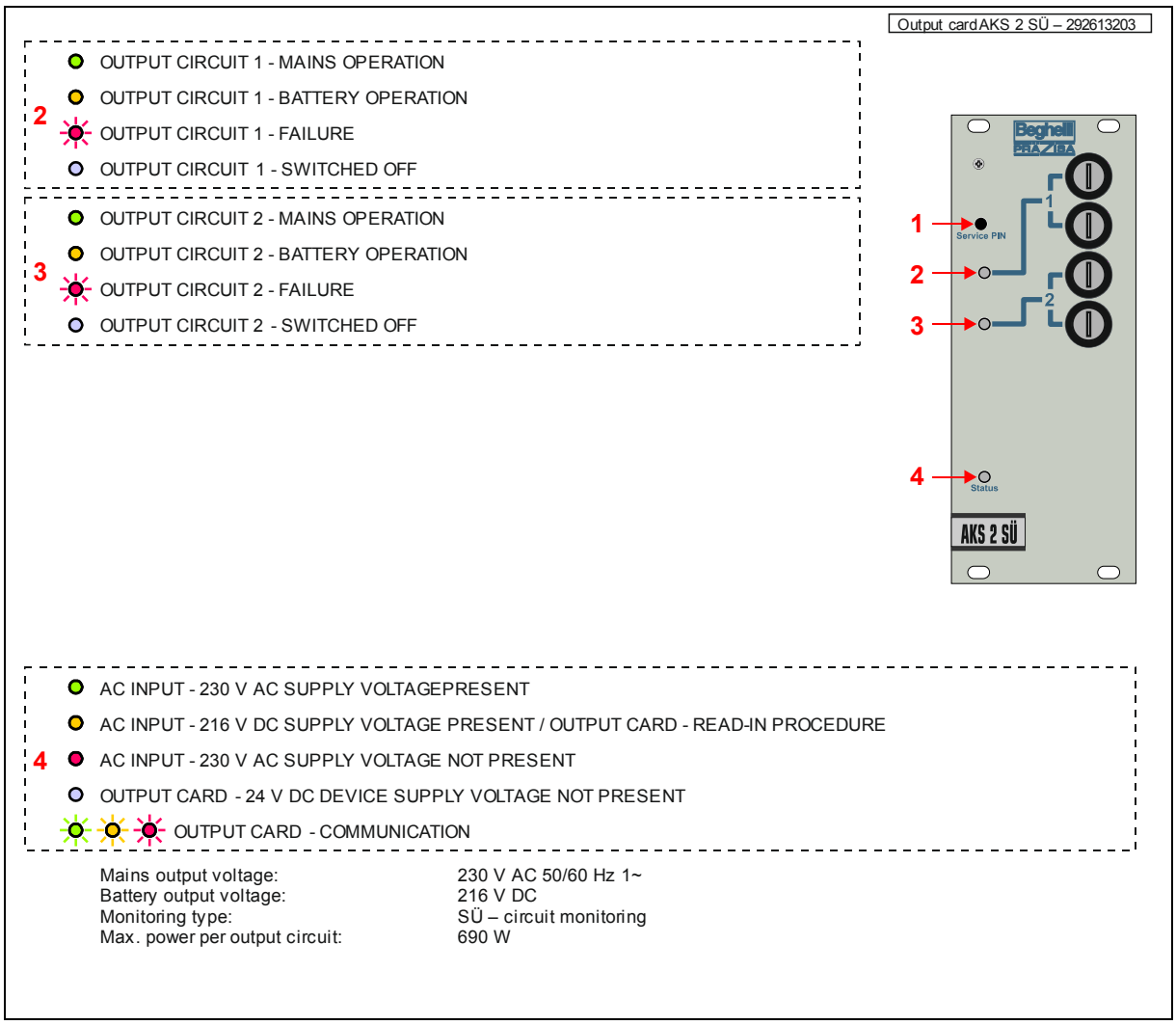
Output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" for read-in of output cards

"2": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"3": optical indication for mains operation / battery operation / failure on the output circuit 2
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"4": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication



Mains output voltage:	230 V AC 50/60 Hz 1~
Battery output voltage:	216 V DC
Monitoring type:	SÜ – circuit monitoring
Max. power per output circuit:	690 W

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Output card AKS 2 EÜ – 292613202:

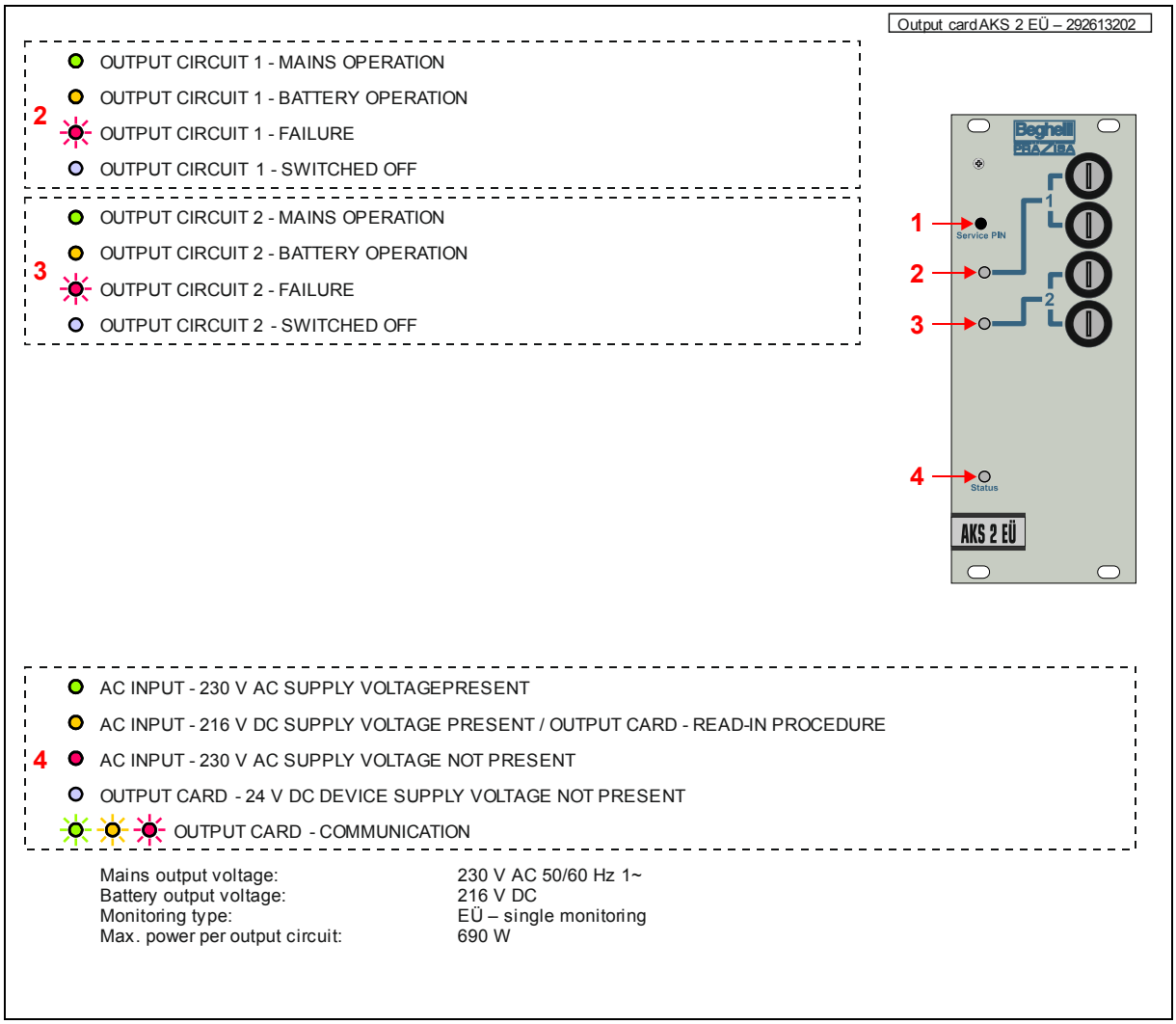
Output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" for read-in of output cards

"2": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"3": optical indication for mains operation / battery operation / failure on the output circuit 2
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"4": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication



Mains output voltage:	230 V AC 50/60 Hz 1~
Battery output voltage:	216 V DC
Monitoring type:	EÜ – single monitoring
Max. power per output circuit:	690 W

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Output card AKS 4 SÜ – 292613205:

Output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" for read-in of output cards

"2": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"3": optical indication for mains operation / battery operation / failure on the output circuit 2
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"4": optical indication for mains operation / battery operation / failure on the output circuit 3
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"5": optical indication for mains operation / battery operation / failure on the output circuit 4
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"6": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication

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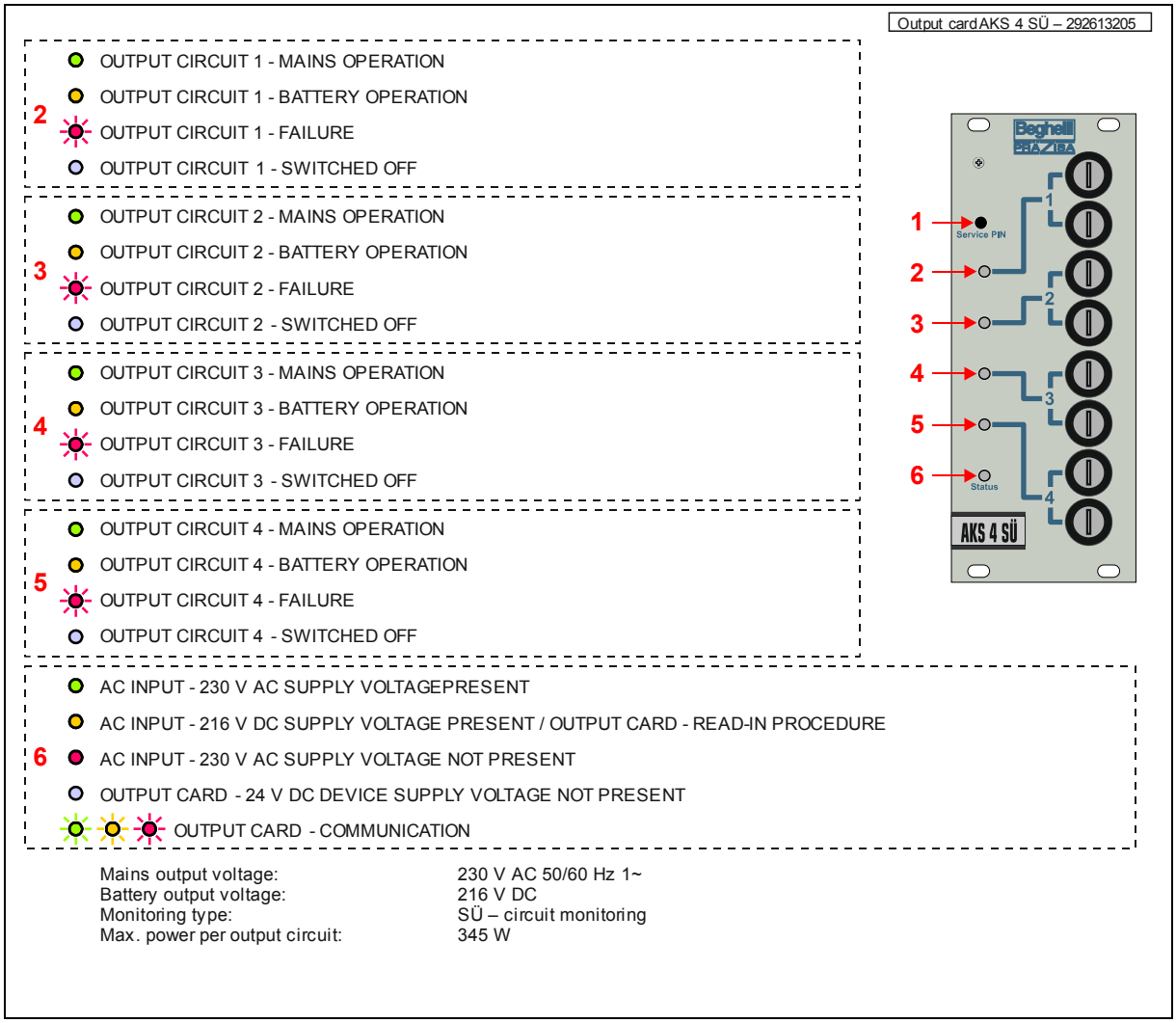

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Output card AKS 4 EÜ – 292613204:

Output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" for read-in of output cards

"2": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"3": optical indication for mains operation / battery operation / failure on the output circuit 2
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"4": optical indication for mains operation / battery operation / failure on the output circuit 3
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"5": optical indication for mains operation / battery operation / failure on the output circuit 4
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"6": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication

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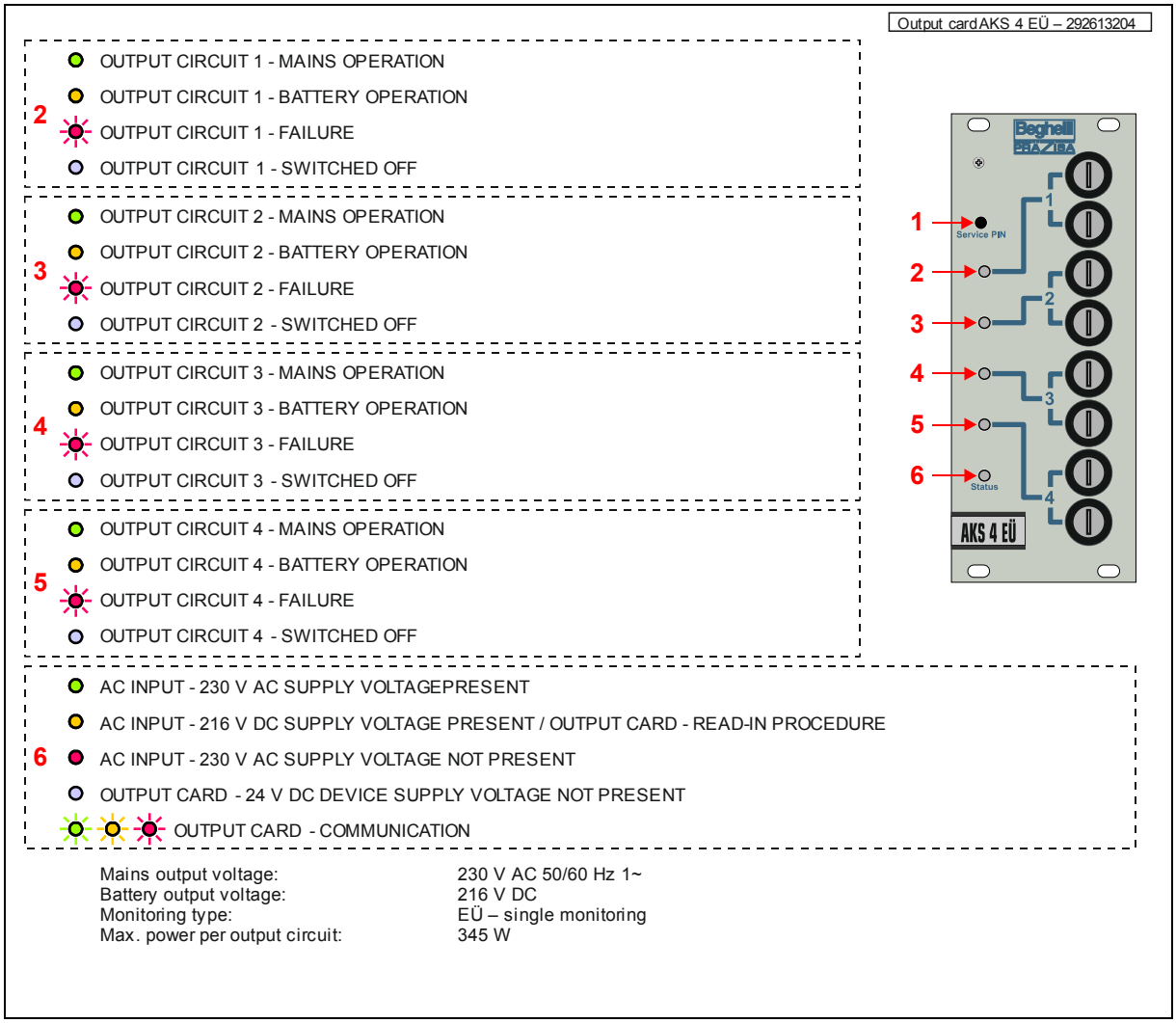

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External output card eAK 2 SÜ – 292701501:

External output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" as function extension for special applications

"2": rotary switch for tens digit of device address

"3": rotary switch for ones digit of device address

"4": optical indication for switching status on the LSSA switch input (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"5": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication

"6": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"7": optical indication for mains operation / battery operation / failure on the output circuit 2
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

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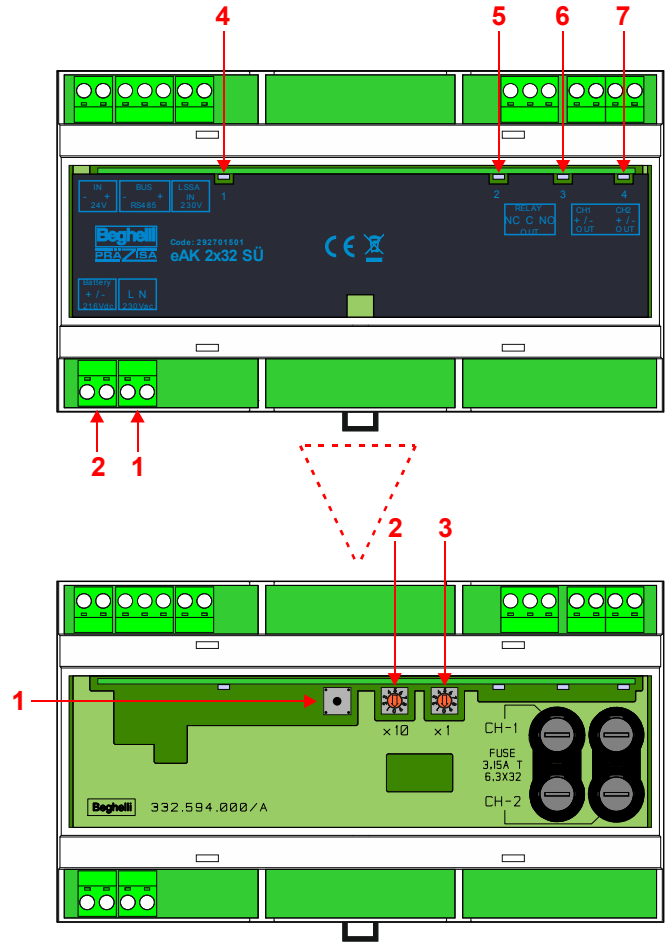
External output card eAK 2 SÜ – 292701501



4
- LSSA SWITCH INPUT - 230 V ACSWITCHING VOLTAGE PRESENT
- LSSA SWITCH INPUT - 230 V AC SWITCHING VOLTAGE NOT PRESENT

5
- AC INPUT - 230 V AC SUPPLY VOLTAGEPRESENT
- AC INPUT - 216 V DC SUPPLY VOLTAGE PRESENT / OUTPUT CARD - READ-IN PROCEDURE
- AC INPUT - 230 V AC SUPPLY VOLTAGE NOT PRESENT
- OUTPUT CARD - 24 V DC DEVICE SUPPLY VOLTAGE NOT PRESENT
- OUTPUT CARD - COMMUNICATION

6
- OUTPUT CIRCUIT 1 - MAINS OPERATION
- OUTPUT CIRCUIT 1 - BATTERY OPERATION
- OUTPUT CIRCUIT 1 - FAILURE
- OUTPUT CIRCUIT 1 - SWITCHED OFF

7
- OUTPUT CIRCUIT 2 - MAINS OPERATION
- OUTPUT CIRCUIT 2 - BATTERY OPERATION
- OUTPUT CIRCUIT 2 - FAILURE
- OUTPUT CIRCUIT 2 - SWITCHED OFF

Mains output voltage:	230 V AC 50/60 Hz 1~
Battery output voltage:	216 V DC
Monitoring type:	SÜ – circuit monitoring
Max. power per output circuit:	400 W

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External output card eAK 2 EÜ – 292701301:

External output card for supply of the output circuits of SICURO-230Z systems.

"1": button "Service PIN" as function extension for special applications

"2": rotary switch for tens digit of device address

"3": rotary switch for ones digit of device address

"4": optical indication for switching status on the LSSA switch input (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"5": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 230 V AC present on AC input
indication on – orange: supply voltage of 216 V DC present on AC input / read-in procedure
indication on – red: supply voltage of 230 V AC not present on AC input
indication off: device supply voltage of 24 V DC not present
indication blinks – green / orange / red: communication

"6": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"7": optical indication for mains operation / battery operation / failure on the output circuit 2
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

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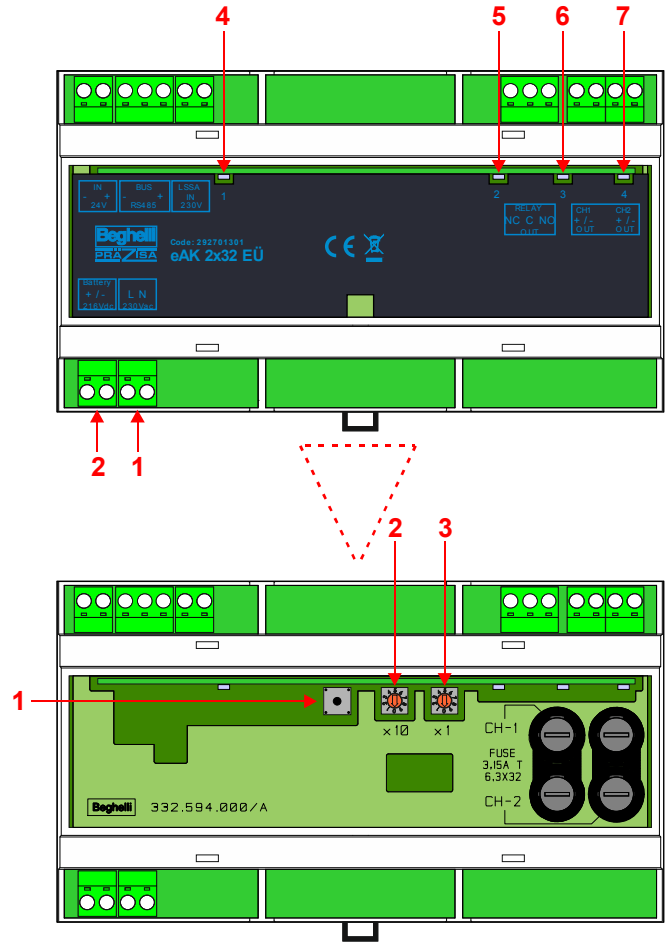
External output card eAK 2 EÜ – 292701301



4
- LSSA SWITCH INPUT - 230 V ACSWITCHING VOLTAGE PRESENT
- LSSA SWITCH INPUT - 230 V AC SWITCHING VOLTAGE NOT PRESENT

5
- AC INPUT - 230 V AC SUPPLY VOLTAGEPRESENT
- AC INPUT - 216 V DC SUPPLY VOLTAGE PRESENT / OUTPUT CARD - READ-IN PROCEDURE
- AC INPUT - 230 V AC SUPPLY VOLTAGE NOT PRESENT
- OUTPUT CARD - 24 V DC DEVICE SUPPLY VOLTAGE NOT PRESENT
- OUTPUT CARD - COMMUNICATION

6
- OUTPUT CIRCUIT 1 - MAINS OPERATION
- OUTPUT CIRCUIT 1 - BATTERY OPERATION
- OUTPUT CIRCUIT 1 - FAILURE
- OUTPUT CIRCUIT 1 - SWITCHED OFF

7
- OUTPUT CIRCUIT 2 - MAINS OPERATION
- OUTPUT CIRCUIT 2 - BATTERY OPERATION
- OUTPUT CIRCUIT 2 - FAILURE
- OUTPUT CIRCUIT 2 - SWITCHED OFF

Mains output voltage:	230 V AC 50/60 Hz 1~
Battery output voltage:	216 V DC
Monitoring type:	EÜ – single monitoring
Max. power per output circuit:	400 W

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Output card AK24V – 292666001 / G32106:

Output card for supply of the output circuits of SICURO-24Z and SICURO-24G systems.

"1": button "Service PIN" for read-in of output cards

"2": optical indication for mains operation / battery operation / failure on the output circuit 1
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"3": optical indication for mains operation / battery operation / failure on the output circuit 2
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"4": optical indication for mains operation / battery operation / failure on the output circuit 3
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"5": optical indication for mains operation / battery operation / failure on the output circuit 4
(green / orange / red)
indication on – green: mains operation present
indication on – orange: battery operation present
indication blinks – red: failure present
indication off: output circuit switched off

"6": optical indication for status of the output card
(green / orange / red)
indication on – green: supply voltage of 24 V DC present on input
indication on – orange: read-in procedure
indication on – red: supply voltage of 24 V DC not present on input
indication off: device supply voltage of 24 V DC not present

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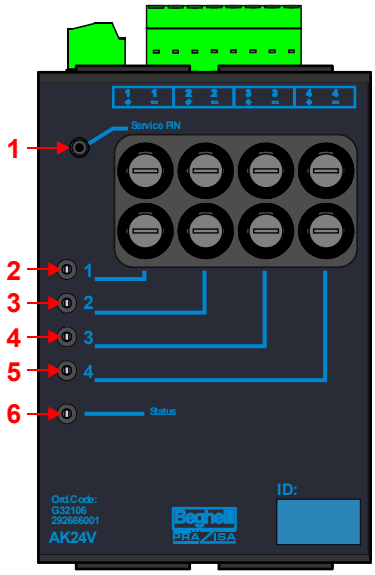
Output card AK24V – 292666001 / G32106



2
- OUTPUT CIRCUIT 1 - MAINS OPERATION
- OUTPUT CIRCUIT 1 - BATTERY OPERATION
- OUTPUT CIRCUIT 1 - FAILURE
- OUTPUT CIRCUIT 1 - SWITCHED OFF

3
- OUTPUT CIRCUIT 2 - MAINS OPERATION
- OUTPUT CIRCUIT 2 - BATTERY OPERATION
- OUTPUT CIRCUIT 2 - FAILURE
- OUTPUT CIRCUIT 2 - SWITCHED OFF

4
- OUTPUT CIRCUIT 3 - MAINS OPERATION
- OUTPUT CIRCUIT 3 - BATTERY OPERATION
- OUTPUT CIRCUIT 3 - FAILURE
- OUTPUT CIRCUIT 3 - SWITCHED OFF

5
- OUTPUT CIRCUIT 4 - MAINS OPERATION
- OUTPUT CIRCUIT 4 - BATTERY OPERATION
- OUTPUT CIRCUIT 4 - FAILURE
- OUTPUT CIRCUIT 4 - SWITCHED OFF

6
- DC INPUT - 24 V DC SUPPLY VOLTAGE PRESENT
- OUTPUT CARD - READ-IN PROCEDURE
- DC INPUT - 24 V DC SUPPLY VOLTAGE NOT PRESENT
- OUTPUT CARD - 24 V DC DEVICE SUPPLY VOLTAGE NOT PRESENT

Mains output voltage:	24 V DC
Battery output voltage:	24 V DC
Monitoring type:	EÜ – single monitoring
Max. power per output circuit:	72 W – without fire protection enclosure 65 W – with fire protection enclosure

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Charger card LT 500W/2A – 292622003:

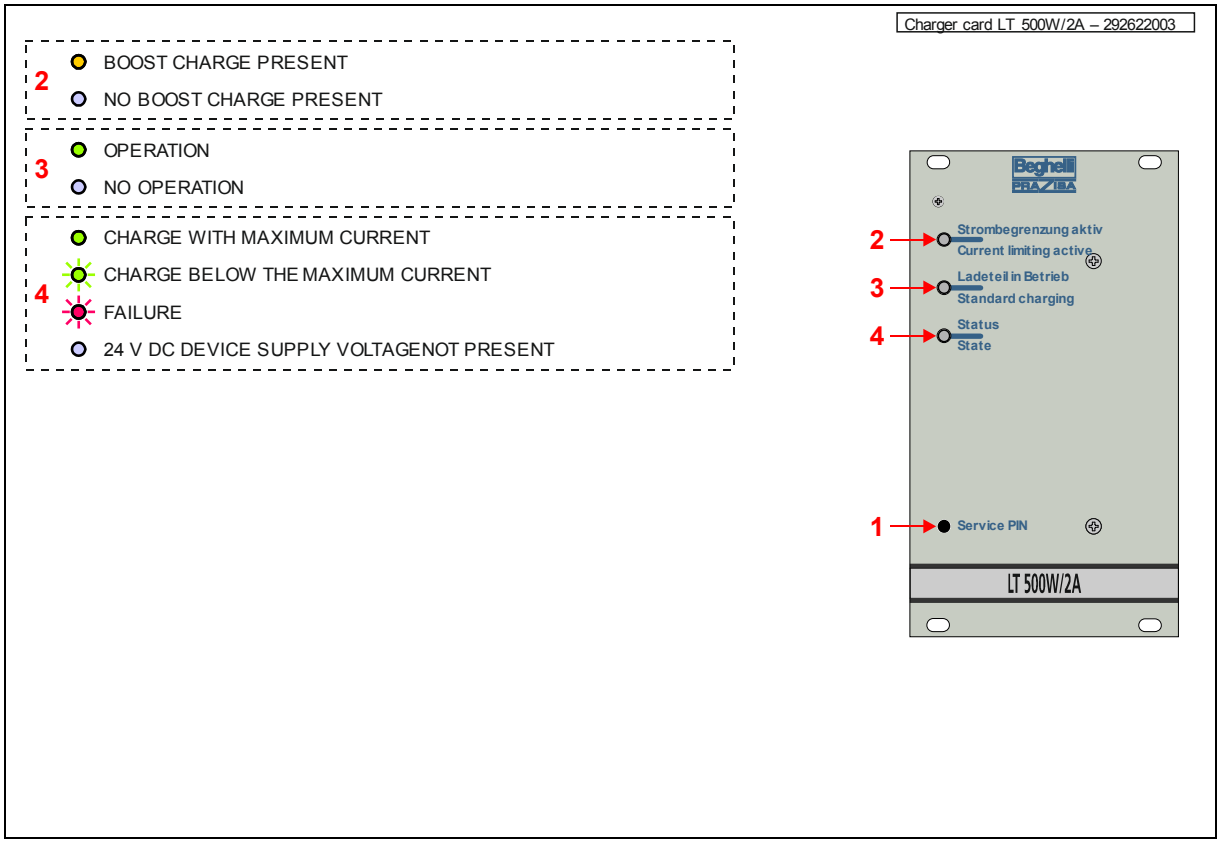
Charger card for charging the batteries of SICURO-230Z systems.

"1": button "Service PIN" for read-in of charger cards

"2": optical indication for boost charge
(orange)
indication on – orange: boost charge present, current limitation at 2 A
indication off: no boost charge present

"3": optical indication for operation of the charger card
(green)
indication on – green: operation
indication off: no operation

"4": optical indication for status of the charger card
(green / red)
indication on – green: charge with maximum current of 2 A
indication blinks – green: charge below the maximum current,
current proportional to switch-on duration of the indication
indication blinks – red: failure present on battery supply
indication off: device supply voltage of 24 V DC not present,
generated by input voltage of 230 V AC



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Switchover card – 292761001 / G32107:

Switchover card for use of one cable as combined mains and battery supply.

"1": button "Service PIN" for read-in of switchover cards

"2": optical indication for mains supply voltage (230 V AC) on the input
(green)
indication on: mains supply voltage present
indication off: mains supply voltage not present

"3": optical indication for battery supply voltage (216 V DC) on the input
(orange)
indication on: battery supply voltage present
indication off: battery supply voltage not present

"4": optical indication for through-switching to output
(green / orange / red)
indication on – green: input of mains supply switched to output
indication on – orange: input of battery supply switched to output
indication on – red: no input switched to output

"5": optical indication for mains supply voltage (230 V AC) /
battery supply voltage (216 V DC) on the output
(green / orange / red)
indication on – green: mains supply voltage present
indication on – orange: battery supply voltage present
indication on – red: no supply voltage present

"6": optical indication for overload
(red)
indication blinks – red: overload present
indication off: no overload

"7": optical indication for status of the switchover card
(green / orange / red)
indication on – green: device supply voltage of 24 V DC present
indication on – orange: read-in procedure
indication on – red: button "Service PIN" actuated for read-in procedure
indication off: device supply voltage of 24 V DC not present

"8": flip switch – blocking of the output

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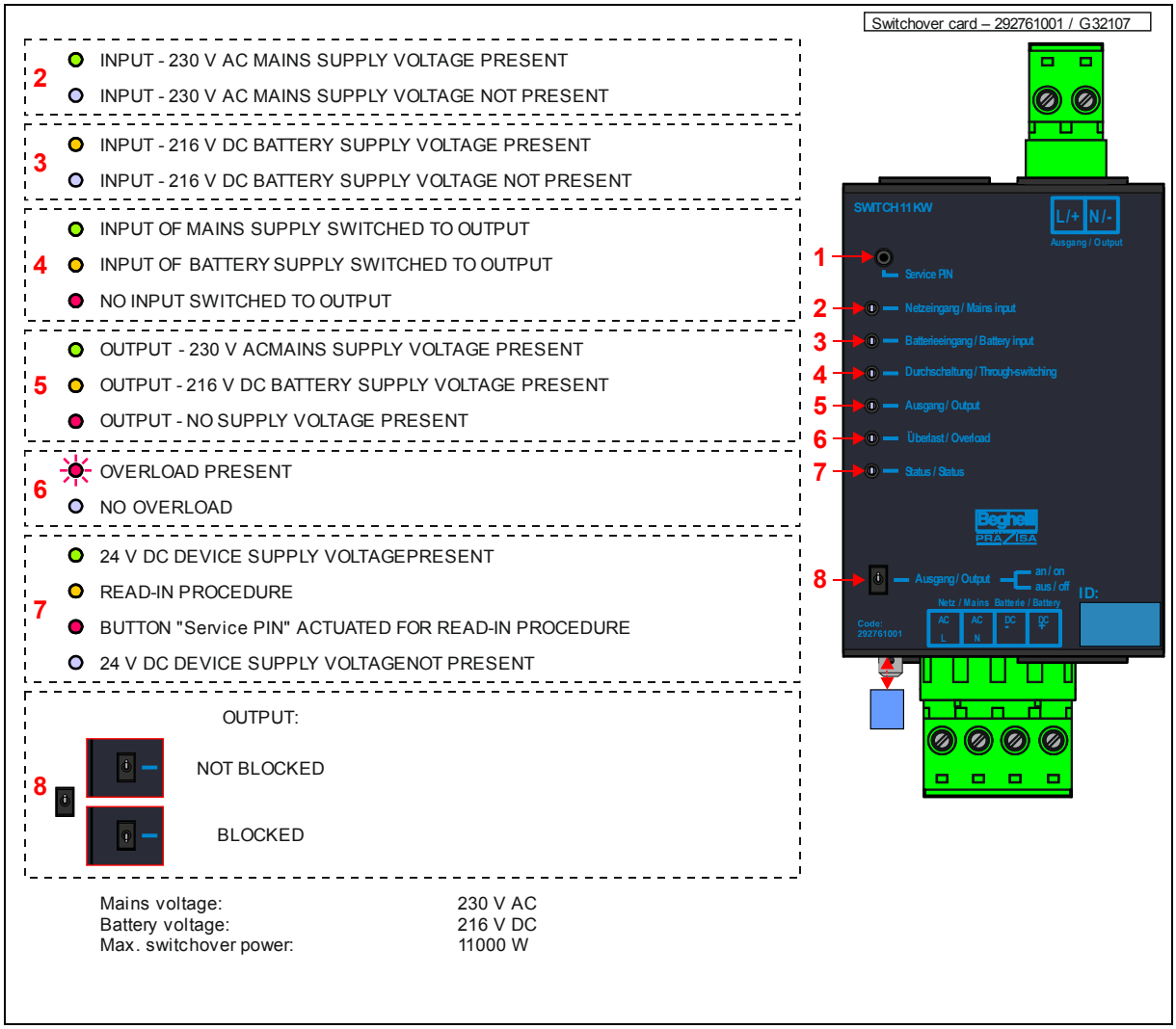
Switchover card – 292761001 / G32107



Mains voltage:	230 V AC
Battery voltage:	216 V DC
Max. switchover power:	11000 W

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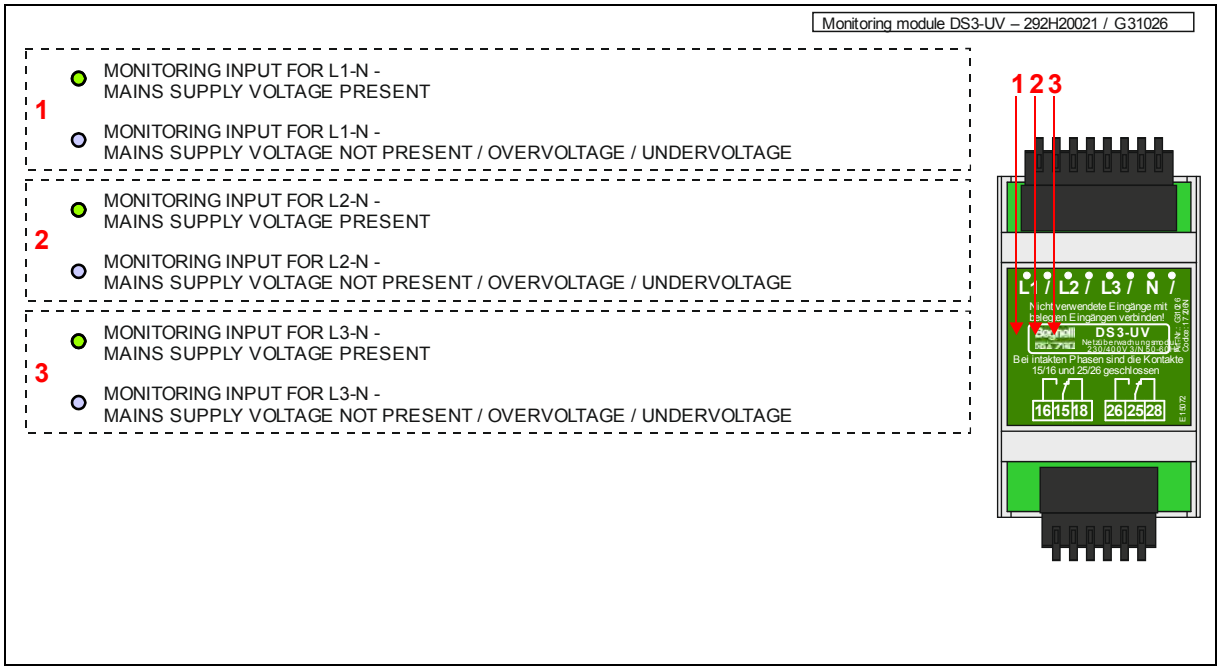
Monitoring module DS3-UV – 292H20021 / G31026:

Monitoring module for monitoring of one mains supply. The monitoring inputs are capable of an integrated sub-distribution monitoring (3-phase) for the general lighting, which can monitor presence and value of the mains voltage.

"1": optical indication for mains supply voltage (230 V AC)
on the monitoring input for L1-N
(green)
indication on – green: mains supply voltage present
indication off: no mains supply voltage present / overvoltage / undervoltage

"2": optical indication for mains supply voltage (230 V AC)
on the monitoring input for L2-N
(green)
indication on – green: mains supply voltage present
indication off: no mains supply voltage present / overvoltage / undervoltage

"3": optical indication for mains supply voltage (230 V AC)
on the monitoring input for L3-N
(green)
indication on – green: mains supply voltage present
indication off: no mains supply voltage present / overvoltage / undervoltage



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Query module LSSA 3+5 – 131000230 / G31585:

Query module for query of eight LSSA switch inputs. The LSSA switch inputs 1 to 3 are capable of an integrated sub-distribution monitoring (3-phase) for the general lighting, which can monitor presence and value of the mains voltage.

"1": rotary switch for tens digit of device address

"2": rotary switch for ones digit of device address

"3": optical indication for communication status (green / red)
indication blinks one times – green:
communication failure present, no reply of query module
indication blinks two times – green:
no communication failure present, normal operation
indication blinks – red:
query module defective
indication off:
device supply voltage of 24 V DC not present

"4": optical indication for switching status on the LSSA switch input 1 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"5": optical indication for switching status on the LSSA switch input 2 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"6": optical indication for switching status on the LSSA switch input 3 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"7": optical indication for switching status on the LSSA switch input 4 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"8": optical indication for switching status on the LSSA switch input 5 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"9": optical indication for switching status on the LSSA switch input 6 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"10": optical indication for switching status on the LSSA switch input 7 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

"11": optical indication for switching status on the LSSA switch input 8 (green)
indication on – green: switching voltage present
indication off: switching voltage not present

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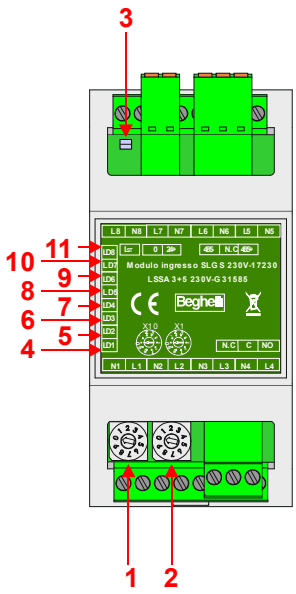
Query module LSSA 3+5 – 131000230 / G31585



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Query module LSSA 8 – 131000231 / G31586:

Query module for query of eight LSSA switch inputs.

"1": rotary switch for tens digit of device address

"2": rotary switch for ones digit of device address

"3": optical indication for communication status (green / red)
indication blinks one times – green:
communication failure present, no reply of query module
indication blinks two times – green:
no communication failure present, normal operation
indication blinks – red:
query module defective
indication off:
device supply voltage of 24 V DC not present

"4": optical indication for switching status on the LSSA switch input 1 (green)
indication on – green: short circuit present
indication off: short circuit not present

"5": optical indication for switching status on the LSSA switch input 2 (green)
indication on – green: short circuit present
indication off: short circuit not present

"6": optical indication for switching status on the LSSA switch input 3 (green)
indication on – green: short circuit present
indication off: short circuit not present

"7": optical indication for switching status on the LSSA switch input 4 (green)
indication on – green: short circuit present
indication off: short circuit not present

"8": optical indication for switching status on the LSSA switch input 5 (green)
indication on – green: short circuit present
indication off: short circuit not present

"9": optical indication for switching status on the LSSA switch input 6 (green)
indication on – green: short circuit present
indication off: short circuit not present

"10": optical indication for switching status on the LSSA switch input 7 (green)
indication on – green: short circuit present
indication off: short circuit not present

"11": optical indication for switching status on the LSSA switch input 8 (green)
indication on – green: short circuit present
indication off: short circuit not present

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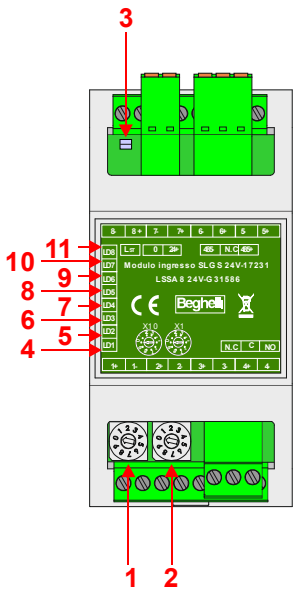
Query module LSSA 8 – 131000231 / G31586



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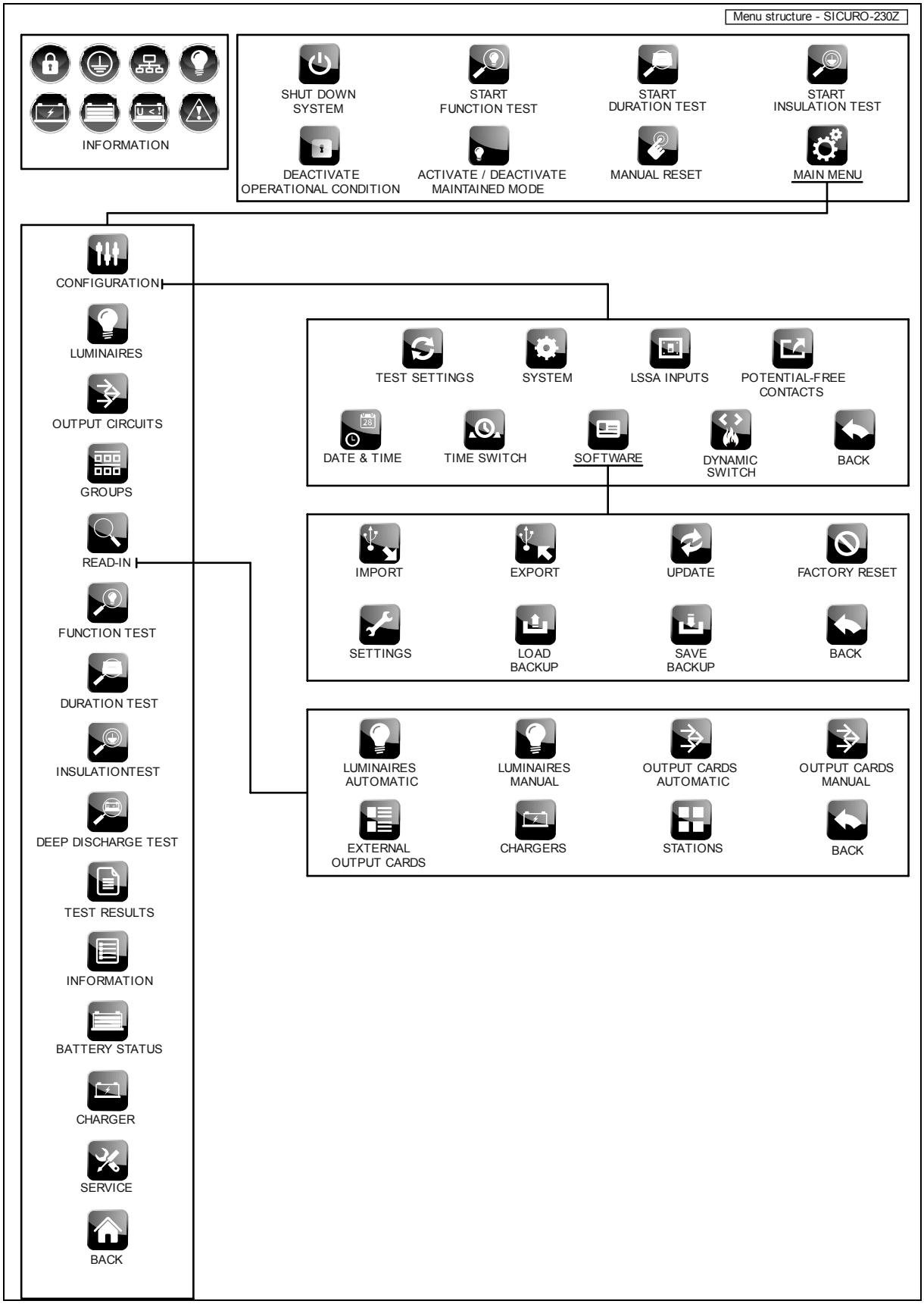
Menu structures



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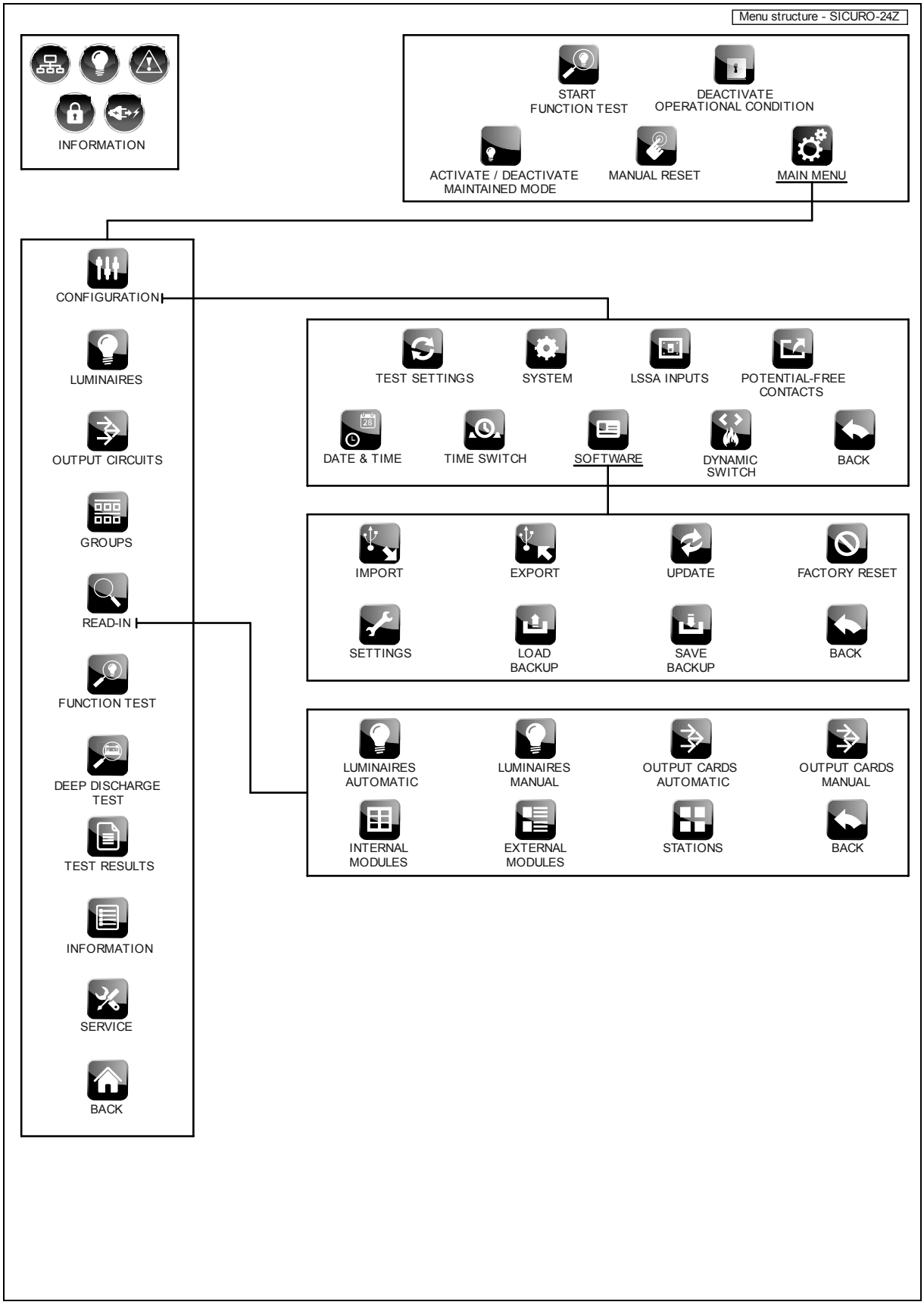

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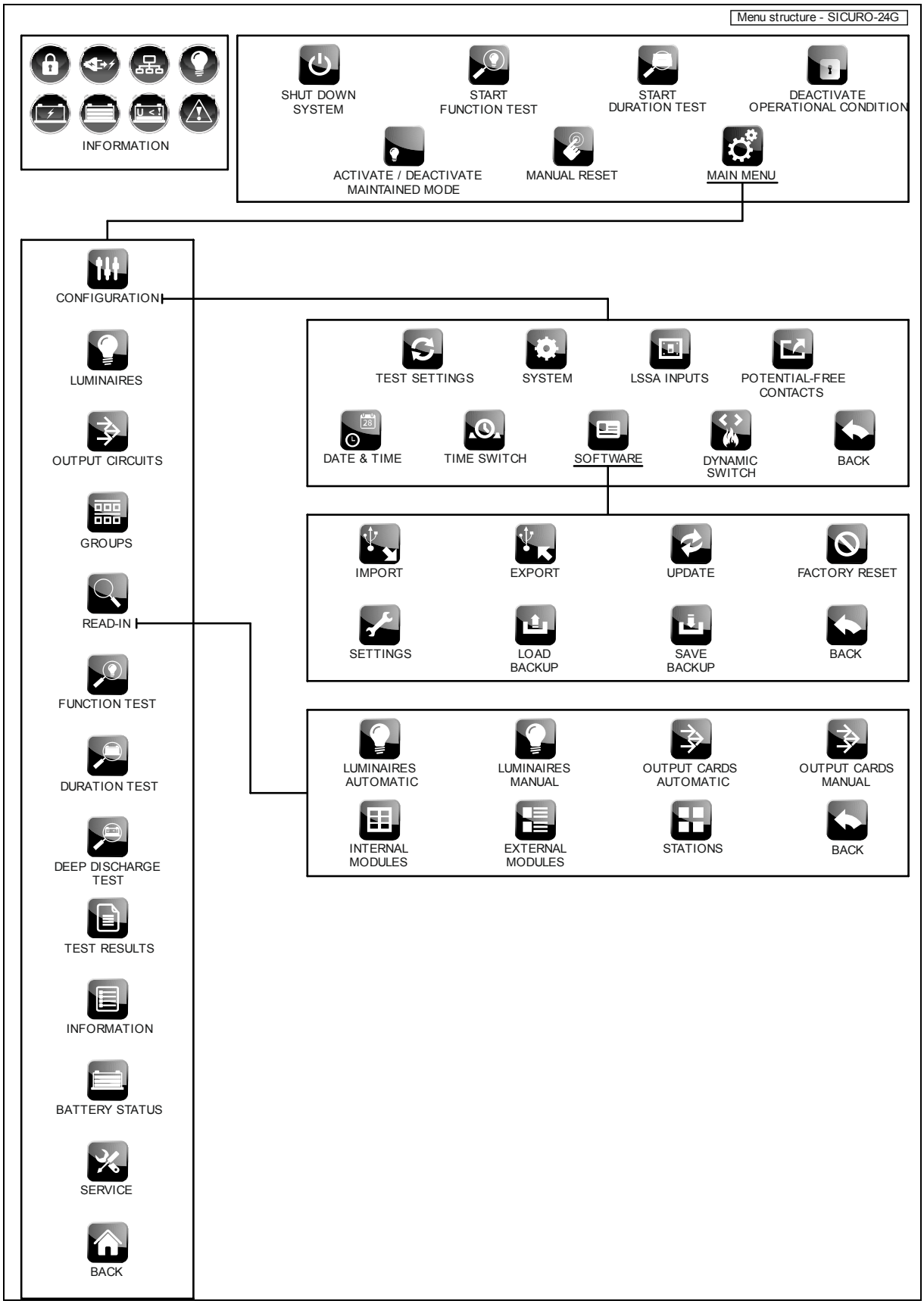

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Cold start / warm start

Cold start:

The cold start is executed during the final inspection of the emergency light station at Beghelli PRÄZISA. The operating system switches into the automatic operation after the cold start. At a cold start the factory settings apply for all data (see factory settings). Afterwards a pre-programming of the software according to the individual switchboard configuration is carried out by Beghelli PRÄZISA.

Attention: **During a cold or warm start no interruption of the mains or battery supply may be done, because this can lead otherwise to data loss.**

During the execution of a saving procedure no simultaneous interruption of the mains and battery supply may be done, because this can lead otherwise to data loss.

Note: **After a new cold start we recommend a following commissioning by our service technicians to ensure the correct function of the operating system.**

Warm start:

In case of interruption of mains and battery supply the emergency light station executes a warm start if at least one of the two supplies recurs. Already programmed data are being retained. The operating system switches into the automatic operation after the warm start.

Note: **A cold start as well as a warm start can take up to 5 minutes. During this time it can happen that the EVA unit indicates no messages.**

Attention: **If a simultaneous interruption of the mains and battery supply takes place during the execution of a test procedure or in emergency operation, a manual function test must be executed after an ended warm start for reset of the operating modes for the luminaire modules on the respective emergency light station.**

SICURO-230Z and SICURO-24G:
Using the device function "SHUT DOWN SYSTEM", a manual function test must be executed after an ended warm start for reset of the operating modes for the luminaire modules on the respective emergency light station.

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Operating modes of the emergency light station, deep discharge protection

The operating system supports three operating modes – automatic operation, manual operation and emergency operation.

Automatic operation:

In automatic operation current information of the emergency light station are indicated. Device functions can be initiated over the touchscreen of the EVA unit or executed automatically. Furthermore bus connections as well as in- and outputs for control resp. monitoring purposes of the emergency light station are available. After expiration of a selectable time in automatic operation without an actuation of the touchscreen the operating system can indicate a screensaver provided this device function is activated. During the indication of the screensaver the automatic operation is still active. By an actuation on any position of the touchscreen the automatic operation will be visible again.

Manual operation:

By the actuation of certain button fields the operating system switches into the manual operation. Within the menu structure settings can be changed and device functions can be executed. Two minutes after the touchscreen was lastly actuated the operating system leaves automatically the respective menu level and returns to the previous menu level until the operating menu is reached. However, this does not apply for menus which contain in- and output functions for special programming.

Emergency operation – general supply failure:

SICURO-230Z – main station,
SICURO-230Z – sub station without combined mains and battery supply,
SICURO-24G – main station:

If a general supply failure is detected on the mains supply of the emergency light station (mains failure on phase conductor or neutral conductor) the operating system switches into the emergency operation with battery supply (battery operation – DC). Depending on the respective programming of the operating mode the output circuits resp. luminaire modules of the affected emergency light station will be switched on. The access to the menus of the operating system will be restricted.

SICURO-230Z – sub station with combined mains and battery supply,
SICURO-24Z – sub station with combined mains and battery supply:

If a general supply failure is detected on the mains supply of the emergency light station with the respective switchover card (mains failure on phase conductor or neutral conductor) the operating system of this emergency light station switches into the emergency operation with battery supply (battery operation – DC). Depending on the respective programming of the operating mode the output circuits resp. luminaire modules of the affected emergency light station will be switched on. The access to the menus of the operating system will be restricted.

Emergency operation – partial supply failure:

If a partial supply failure is detected on the critical circuit or on an accordingly programmed LSSA switch input of the emergency light station (mains failure on sub-distribution monitoring), the operating system switches into the emergency operation with mains supply (mains operation – AC). Depending on the respective programming of the operating mode the output circuits resp. luminaire modules of the affected emergency light station will be switched on. The access to the menus of the operating system will be restricted.

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Protocolling of the supply failures:

All supply failures are indicated and protocolled on the touchscreen. If no supply failure is detected during an emergency operation the emergency light station returns into the automatic operation. Depending on the programming a manual reset of the operating modes for output circuits resp. luminaire modules can be necessary after this on the emergency light station.

Note: **Detailed information regarding the mains and battery supply as well as the mains and battery output voltage of the SICURO systems are to be found at the type codes (see type codes).**

Deep discharge protection:

All emergency light stations are capable of a deep discharge protection for the battery supply. If the voltage of the battery supply has reached the switch-on value for the deep discharge protection then the deep discharge protection is activated by the operating system whereby a deactivation of the emergency operation with battery supply (battery operation – DC) takes place. This will be indicated over the optical indication for collective fault (red) as well as over the button field "INFORMATION" (collective fault and deep discharge red) on the EVA unit. In the operating menu text fields for additional information are indicating further details.

If the voltage of the battery supply has reached the switch-off value for the deep discharge protection then the deep discharge protection stays activated with respective indications but without deactivation of the emergency operation with battery supply (battery operation – DC). An actuation of the button field "MAIN MENU" calls up an input prompt to execute a manual reset where the operating system deactivates the deep discharge protection. This reset function is only available at main stations.

Attention: **At activated deep discharge protection the emergency light stations can not switch into the emergency operation with battery supply (battery operation – DC) as long as the switch-off value for the deep discharge protection is not reached.**

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Button fields

Button fields - general - view 1 of 2

SAVE INPUT AND LEAVE MENU

DO NOT SAVE INPUT AND LEAVE MENU, IF OTHER BUTTON FIELD FOR SAVING PRESENT

DO NOT SAVE INPUT AND LEAVE MENU

ABORT PROCEDURE

CLOSE TEXT FIELD

LEAVE MENU

SAVE DATA OVER USB PORT

CALL UP TIME INPUT FOR CYCLE TIME

INCREASE INPUT VALUE

ADDING OF DEVICE PARAMETERS

DECREASE INPUT VALUE

REMOVAL OF DEVICE PARAMETERS

APPLY INPUT FOR ALL EQUIPMENT

DELETE SELECTION

CALL UP DATE INPUT

CALL UP TIME INPUT FOR FIXED TIME

CALL UP TIME INPUT FOR INTERVAL TIME

CALL UP TEXT INPUT

CALL UP GENERAL DATA INPUT

CALL UP DETAILS / REPORT

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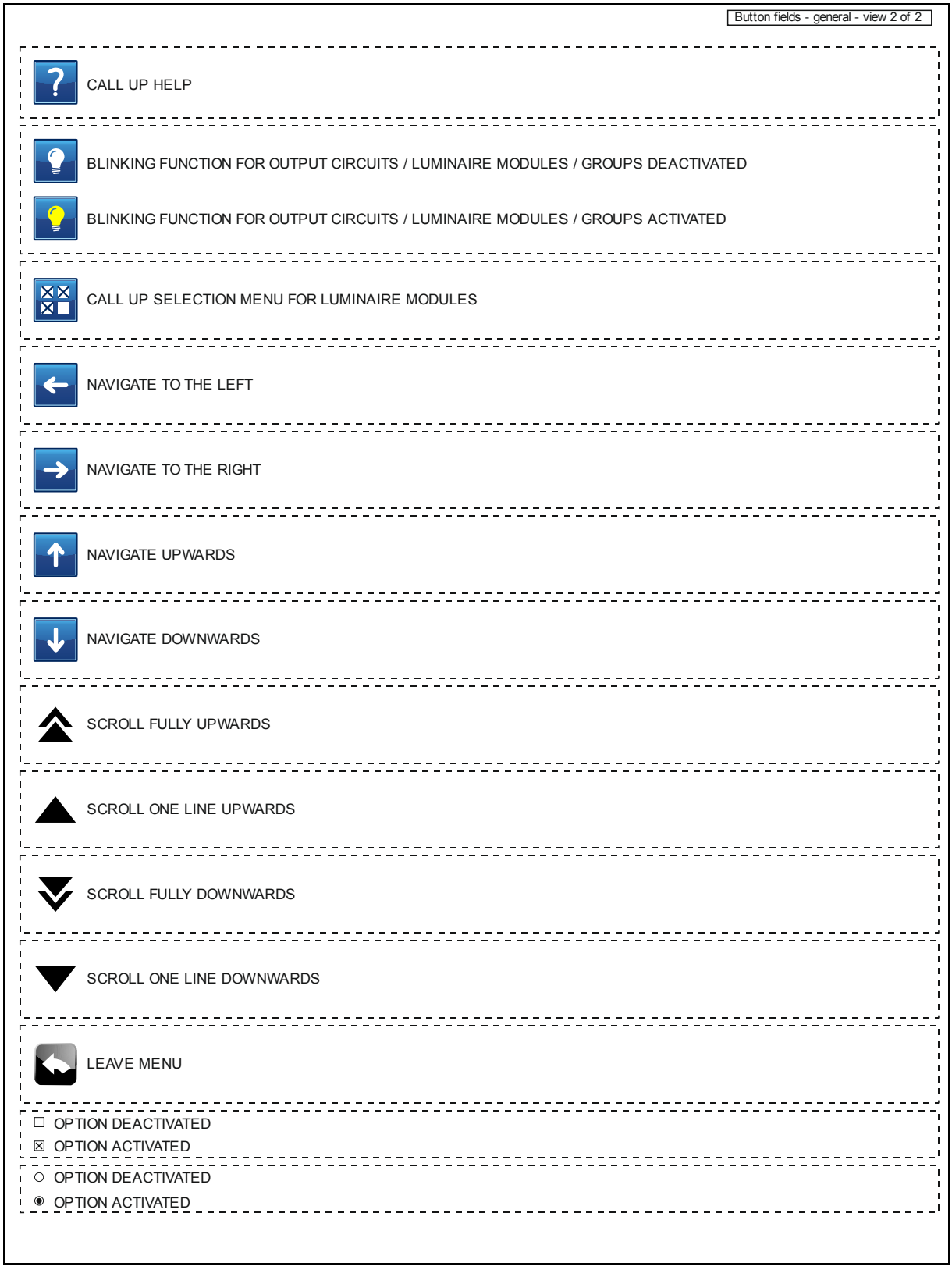
Button fields - general - view 2 of 2



Note: **Greyed out button fields can <u>not</u> be actuated regarding the current system settings.**

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0 "OPERATING MENU"

In the operating menu the current operating mode and the operational condition of the respective emergency light station as well as general data regarding the installation are indicated. Furthermore various device functions can be executed directly from the operating menu and a call-up of the menus "MAIN MENU" and "INFORMATION" can be done.

SICURO-230Z – main station with 3 phases:

"1": text field – operating mode of the main station, indicated operating modes:
automatic operation, emergency operation with duration, follow-up time

"2": text field with optical indication – mains supply L1 on main station

"3": text field with optical indication – mains supply L2 on main station

"4": text field with optical indication – mains supply L3 on main station

"5": text field with optical indication – mains supply on sub-distribution

"6": text field – output card with card address and total current (cyclical) / switchover card with card address

"7": text field with optical indication – current for output circuit 1 (measured at last function test / duration test)

"8": text field with optical indication – current for output circuit 2 (measured at last function test / duration test)

"9": text field with optical indication – current for output circuit 3 (measured at last function test / duration test)

"10": text field with optical indication – current for output circuit 4 (measured at last function test / duration test)

"11": button field – call-up of the view for the detailed information regarding all output cards

"12": text field – station type and station address

"13": text field – date and time of the operating system

"14": text field – voltage of the battery supply

"15": text field – charge current / discharge current of the battery supply

"16": text field – date and time of the last function test / duration test

"17": text field – date and time of the next automatic function test / duration test

"18": text field – additional information

"19": text field – additional information

"20": button field with optical indication – password protection for operating menu / main menu,
actuation of the button field before expiration of the access time: reset access time prematurely

"21": button field with optical indication – network connection, actuation of the button field:
indication of the IP address and MAC address of the respective main station

"22": optical indication – USB connection

"23": button field with optical indication – communication reception over main station bus,
actuation of the button field: indication of the software version of the operating system

"24": button field with 8 optical indications –
indication of various information regarding the respective main station,
actuation of the button field: call-up of the menu "INFORMATION"

"25": button field with optical indication – execution of a manual function test

"26": button field with optical indication – execution of a manual duration test

"27": button field with optical indication – execution of a manual insulation test

"28": button field with optical indication – deactivation of the operational condition for the respective main station

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"29": button field with optical indication – activation / deactivation of the maintained mode for the respective main station together with all connected sub stations where appropriate

"30": button field with optical indication – execution of the manual reset for operating modes of the output circuits resp. luminaire modules

"31": button field – call-up of the menu "MAIN MENU",
execution of the manual reset for the deep discharge protection (if deep discharge protection is activated)

"32": button field during emergency operation with battery supply –
shutdown of the operating system of the respective main station

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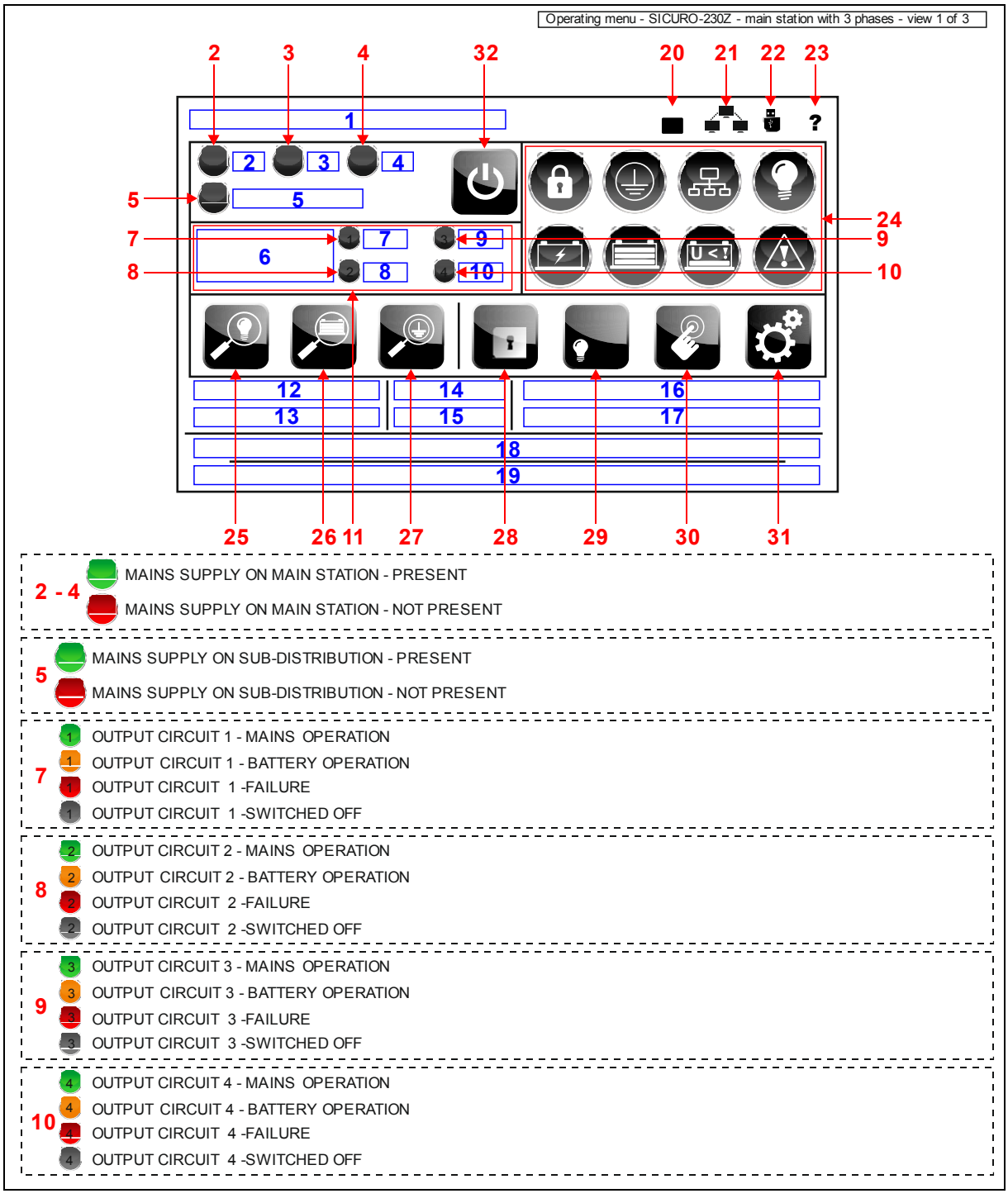
During the activated operational condition the operating menu is indicated in automatic and emergency operation as follows.



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Operating menu - SICURO-230Z - main station with 3 phases - view 2 of 3

20 PASSWORD PROTECTION FOR OPERATING MENU / MAIN MENU - ACCESS TIME NOT EXPIRED
PASSWORD PROTECTION FOR OPERATING MENU / MAIN MENU - ACCESS TIME EXPIRED

21 NETWORK CONNECTION - PRESENT
NETWORK CONNECTION - NOT PRESENT

22 USB CONNECTION -PRESENT
USB CONNECTION -NOT PRESENT

23 MAIN STATION, SOFTWARE - COMMUNICATION RECEPTION OVER MAIN STATION BUS
MAIN STATION, SOFTWARE - NO COMMUNICATION RECEPTION OVER MAIN STATION BUS

24
MAIN STATION - OPERATIONAL CONDITION PRESENT
MAIN STATION - OPERATIONAL CONDITION NOT PRESENT
MAIN STATION, OUTPUT CIRCUIT - NO INSULATION FAILURE PRESENT
MAIN STATION, OUTPUT CIRCUIT - INSULATION FAILURE PRESENT
STATION, DEVICE, OUTPUT CARD BUS - NO FAILURE PRESENT
STATION, DEVICE, OUTPUT CARD BUS - FAILURE PRESENT
OUTPUT CIRCUIT - NO FAILURE PRESENT
OUTPUT CIRCUIT - FAILURE PRESENT
CHARGER MODULE - FUNCTION PRESENT
CHARGER MODULE - FUNCTION NOT PRESENT
BATTERY SUPPLY - KEIN VERSORGUNGSFEHLER VORHANDEN
BATTERY SUPPLY -SUPPLY FAILURE PRESENT, VOLTAGE DEVIATES FROM TARGET VALUE OF THE BATTERY MIDDLE TAPPING
BATTERY SUPPLY - NO DEEP DISCHARGE PRESENT
BATTERY SUPPLY - DEEP DISCHARGE PRESENT
MAIN STATION - NO COLLECTIVE FAULT PRESENT
MAIN STATION - COLLECTIVE FAULT PRESENT

25 FUNCTION TEST - ENABLED
FUNCTION TEST - NOT ENABLED

26 DURATION TEST - ENABLED
DURATION TEST - NOT ENABLED

27 INSULATION TEST - ENABLED
INSULATION TEST - NOT ENABLED

28 OPERATIONAL CONDITION - ACTIVATED
OPERATIONAL CONDITION - DEACTIVATED

29 MAINTAINED MODE - ACTIVATED
MAINTAINED MODE - DEACTIVATED

30 MANUAL RESET - ENABLED
MANUAL RESET - NOT ENABLED

31 MAIN MENU, RESET FOR DEEP DISCHARGE PROTECTION

32 SHUT DOWN OPERATING SYSTEM, ONLY VISIBLE DURING EMERGENCY OPERATION WITH BATTERY SUPPLY

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An actuation of the button field "11" calls up the following view in the operating menu.

"33 - 44": text fields – output card with card address and total current (cyclical) / switchover card with card address

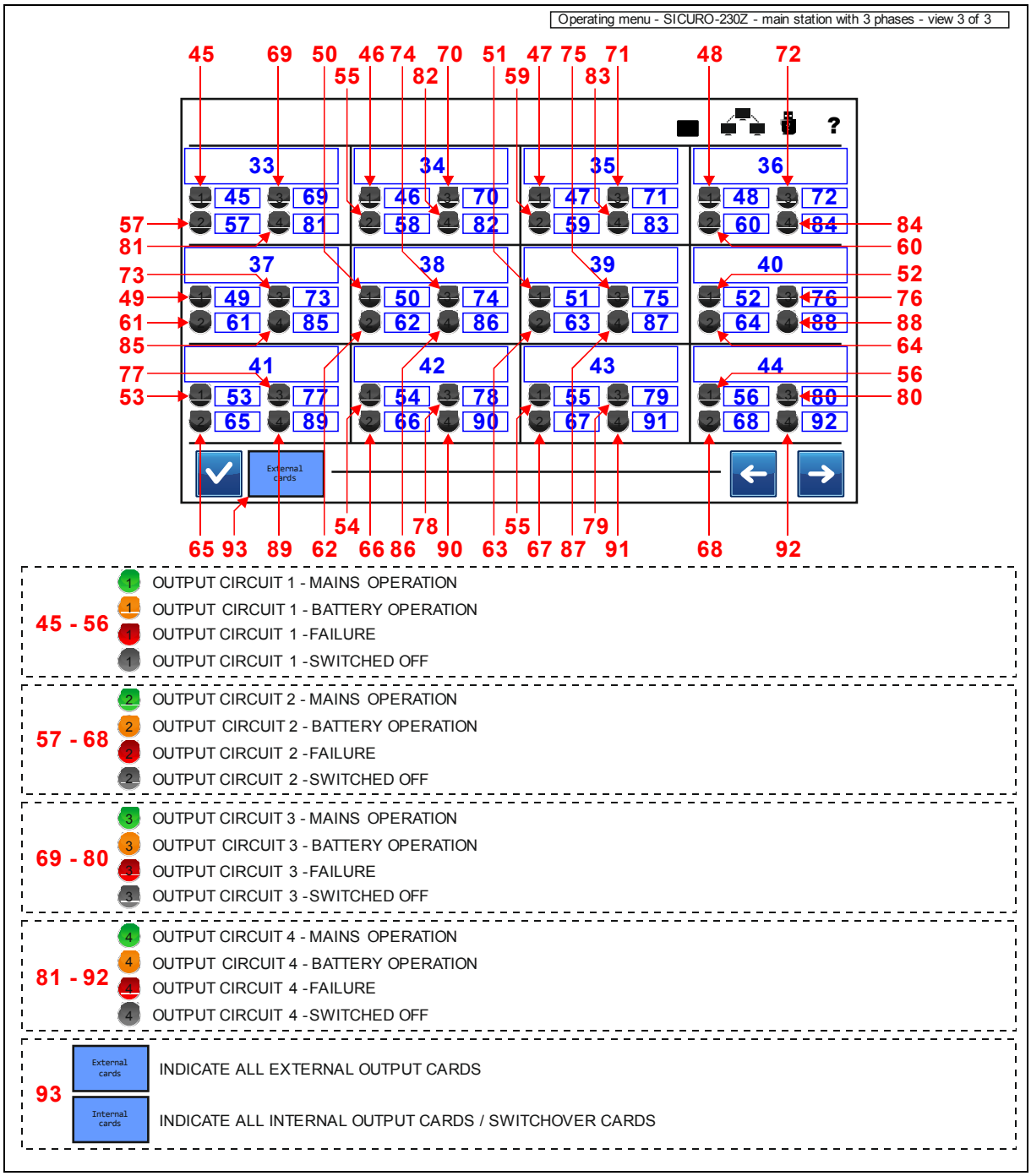
"45 - 56": text fields with optical indications – current for output circuit 1 (measured at last function test / duration test)

"57 - 68": text fields with optical indications – current for output circuit 2 (measured at last function test / duration test)

"69 - 80": text fields with optical indications – current for output circuit 3 (measured at last function test / duration test)

"81 - 92": text fields with optical indications – current for output circuit 4 (measured at last function test / duration test)

"93": text field – indication of all internal / external output cards



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SICURO-230Z – main station with 1 phase:

"1": text field – operating mode of the main station, indicated operating modes:
automatic operation, emergency operation with duration, follow-up time

"2": text field with optical indication – mains supply on main station

"3": text field with optical indication – mains supply on sub-distribution

"4": text field – output card with card address and total current (cyclical) / switchover card with card address

"5": text field with optical indication – current for output circuit 1 (measured at last function test / duration test)

"6": text field with optical indication – current for output circuit 2 (measured at last function test / duration test)

"7": text field with optical indication – current for output circuit 3 (measured at last function test / duration test)

"8": text field with optical indication – current for output circuit 4 (measured at last function test / duration test)

"9": button field – call-up of the view for the detailed information regarding all output cards

"10": text field – station type and station address

"11": text field – date and time of the operating system

"12": text field – voltage of the battery supply

"13": text field – charge current / discharge current of the battery supply

"14": text field – date and time of the last function test / duration test

"15": text field – date and time of the next automatic function test / duration test

"16": text field – additional information

"17": text field – additional information

"18": button field with optical indication – password protection for operating menu / main menu,
actuation of the button field before expiration of the access time: reset access time prematurely

"19": button field with optical indication – network connection, actuation of the button field:
indication of the IP address and MAC address of the respective main station

"20": optical indication – USB connection

"21": button field with optical indication – communication reception over main station bus,
actuation of the button field: indication of the software version of the operating system

"22": button field with 8 optical indications –
indication of various information regarding the respective main station,
actuation of the button field: call-up of the menu "INFORMATION"

"23": button field with optical indication – execution of a manual function test

"24": button field with optical indication – execution of a manual duration test

"25": button field with optical indication – execution of a manual insulation test

"26": button field with optical indication – deactivation of the operational condition for the respective main station

"27": button field with optical indication – activation / deactivation of the maintained mode for the respective main station
together with all connected sub stations where appropriate

"28": button field with optical indication – execution of the manual reset for operating modes
of the output circuits resp. luminaire modules

"29": button field – call-up of the menu "MAIN MENU",
execution of the manual reset for the deep discharge protection (if deep discharge protection is activated)

"30": button field during emergency operation with battery supply –
shutdown of the operating system of the respective main station

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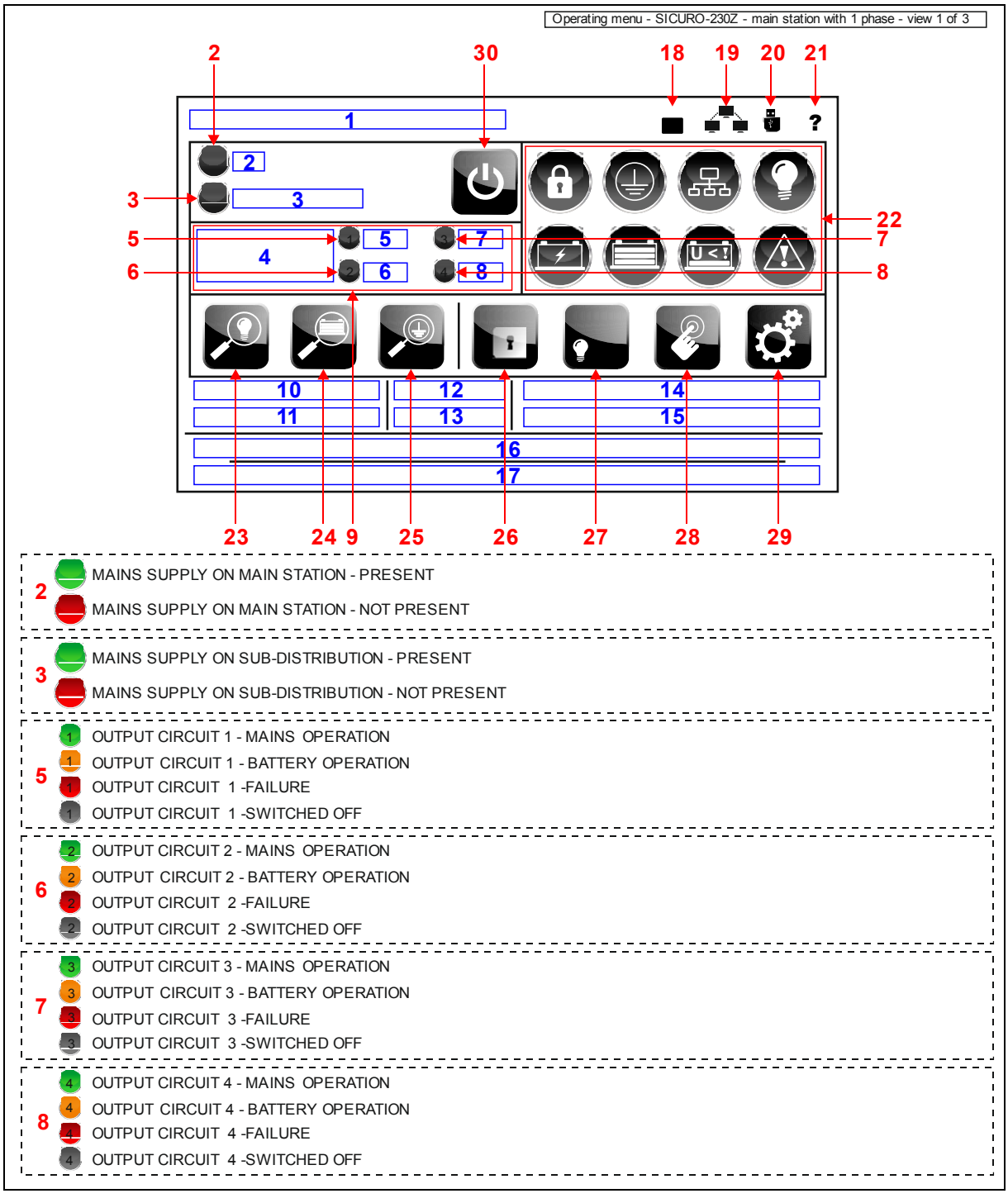
During the activated operational condition the operating menu is indicated in automatic and emergency operation as follows.



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Operating menu - SICURO-230Z - main station with 1 phase - view 2 of 3

18
- PASSWORD PROTECTION FOR OPERATING MENU / MAIN MENU - ACCESS TIME NOT EXPIRED
- PASSWORD PROTECTION FOR OPERATING MENU / MAIN MENU - ACCESS TIME EXPIRED

19
- NETWORK CONNECTION - PRESENT
- NETWORK CONNECTION - NOT PRESENT

20
- USB CONNECTION -PRESENT
- USB CONNECTION -NOT PRESENT

21
- MAIN STATION, SOFTWARE - COMMUNICATION RECEPTION OVER MAIN STATION BUS
- MAIN STATION, SOFTWARE - NO COMMUNICATION RECEPTION OVER MAIN STATION BUS

22
- MAIN STATION - OPERATIONAL CONDITION PRESENT
- MAIN STATION - OPERATIONAL CONDITION NOT PRESENT
- MAIN STATION, OUTPUT CIRCUIT - NO INSULATION FAILURE PRESENT
- MAIN STATION, OUTPUT CIRCUIT - INSULATION FAILURE PRESENT
- STATION, DEVICE, OUTPUT CARD BUS - NO FAILURE PRESENT
- STATION, DEVICE, OUTPUT CARD BUS - FAILURE PRESENT
- OUTPUT CIRCUIT - NO FAILURE PRESENT
- OUTPUT CIRCUIT - FAILURE PRESENT
- CHARGER MODULE - FUNCTION PRESENT
- CHARGER MODULE - FUNCTION NOT PRESENT
- BATTERY SUPPLY - KEIN VERSORGUNGSFEHLER VORHANDEN
- BATTERY SUPPLY -SUPPLY FAILURE PRESENT, VOLTAGE DEVIATES FROM TARGET VALUE OF THE BATTERY MIDDLE TAPPING
- BATTERY SUPPLY - NO DEEP DISCHARGE PRESENT
- BATTERY SUPPLY - DEEP DISCHARGE PRESENT
- MAIN STATION - NO COLLECTIVE FAULT PRESENT
- MAIN STATION - COLLECTIVE FAULT PRESENT

23
- FUNCTION TEST - ENABLED
- FUNCTION TEST - NOT ENABLED

24
- DURATION TEST - ENABLED
- DURATION TEST - NOT ENABLED

25
- INSULATION TEST - ENABLED
- INSULATION TEST - NOT ENABLED

26
- OPERATIONAL CONDITION - ACTIVATED
- OPERATIONAL CONDITION - DEACTIVATED

27
- MAINTAINED MODE - ACTIVATED
- MAINTAINED MODE - DEACTIVATED

28
- MANUAL RESET - ENABLED
- MANUAL RESET - NOT ENABLED

29
- MAIN MENU, RESET FOR DEEP DISCHARGE PROTECTION

30
- SHUT DOWN OPERATING SYSTEM, ONLY VISIBLE DURING EMERGENCY OPERATION WITH BATTERY SUPPLY

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An actuation of the button field "9" calls up the following view in the operating menu.

"31 - 42": text fields – output card with card address and total current (cyclical) / switchover card with card address

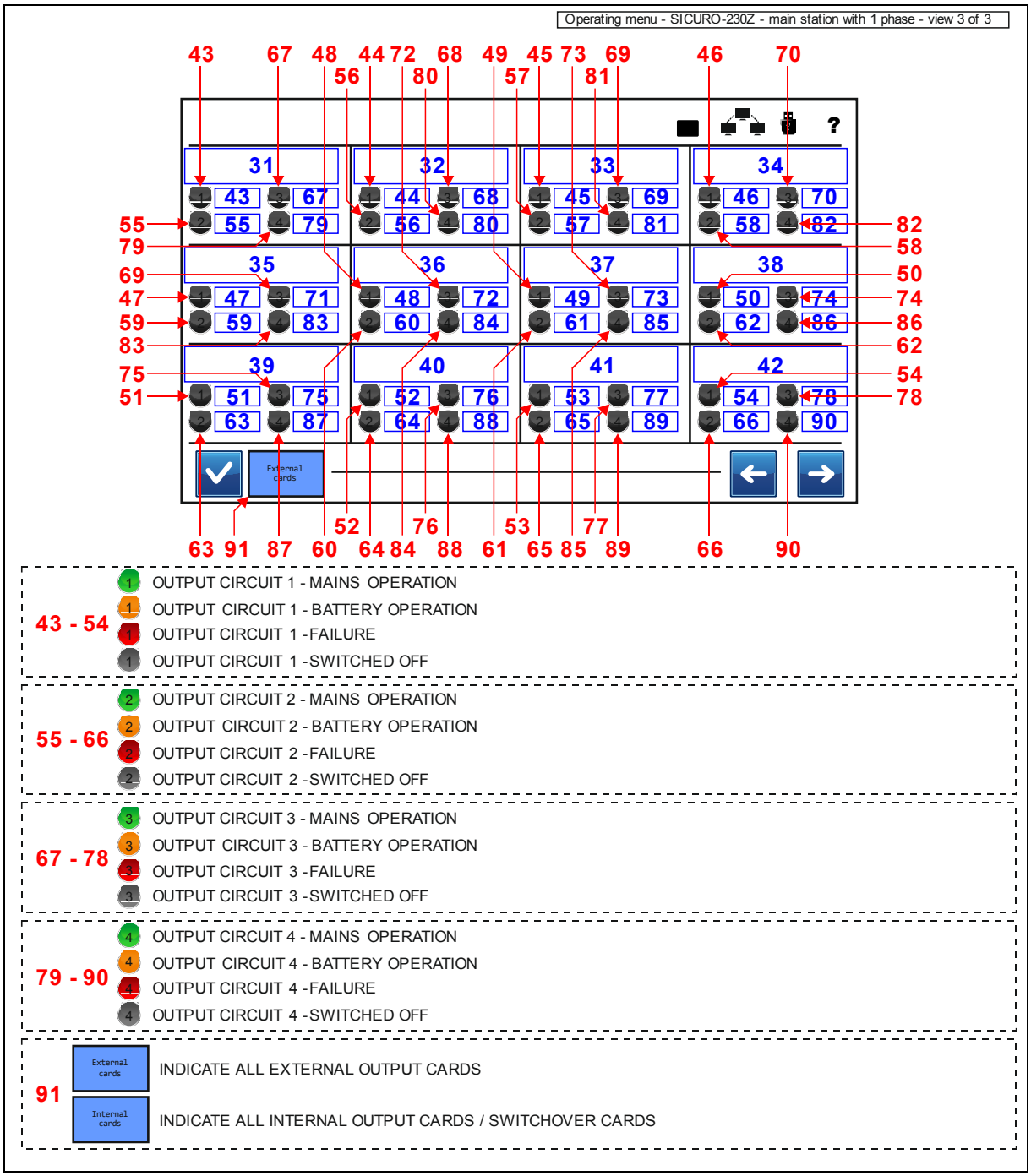
"43 - 54": text fields with optical indications – current for output circuit 1 (measured at last function test / duration test)

"55 - 66": text fields with optical indications – current for output circuit 2 (measured at last function test / duration test)

"67 - 78": text fields with optical indications – current for output circuit 3 (measured at last function test / duration test)

"79 - 90": text fields with optical indications – current for output circuit 4 (measured at last function test / duration test)

"91": text field – indication of all internal / external output cards



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SICURO-230Z – sub station with 3 phases:

"1": text field – operating mode of the sub station, indicated operating modes:
automatic operation, emergency operation with duration, follow-up time

"2": text field with optical indication – mains supply L1 on sub station

"3": text field with optical indication – mains supply L2 on sub station

"4": text field with optical indication – mains supply L3 on sub station

"5": text field with optical indication – mains supply on sub-distribution

"6": text field – output card with card address / switchover card with card address

"7": text field with optical indication – current for output circuit 1 (measured at last function test / duration test)

"8": text field with optical indication – current for output circuit 2 (measured at last function test / duration test)

"9": text field with optical indication – current for output circuit 3 (measured at last function test / duration test)

"10": text field with optical indication – current for output circuit 4 (measured at last function test / duration test)

"11": button field – call-up of the view for the detailed information regarding all output cards

"12": text field – station type and station address

"13": text field – date and time of the operating system

"14": text field – date and time of the last function test / duration test

"15": text field – date and time of the next automatic function test / duration test

"16": text field – additional information

"17": text field – additional information

"18": button field with optical indication – password protection for operating menu / main menu,
actuation of the button field before expiration of the access time: reset access time prematurely

"19": button field with optical indication – network connection, actuation of the button field:
indication of the IP address and MAC address of the respective sub station

"20": optical indication – USB connection

"21": button field with optical indication – communication reception over sub station bus,
actuation of the button field: indication of the software version of the operating system

"22": button field with 4 optical indications –
indication of various information regarding the respective sub station,
actuation of the button field: call-up of the menu "INFORMATION"

"23": button field with optical indication – execution of a manual function test

"24": button field with optical indication – deactivation of the operational condition for the respective sub station

"25": button field with optical indication – activation / deactivation of the maintained mode for the respective sub station

"26": button field with optical indication – execution of the manual reset for operating modes
of the output circuits resp. luminaire modules

"27": button field – call-up of the menu "MAIN MENU"

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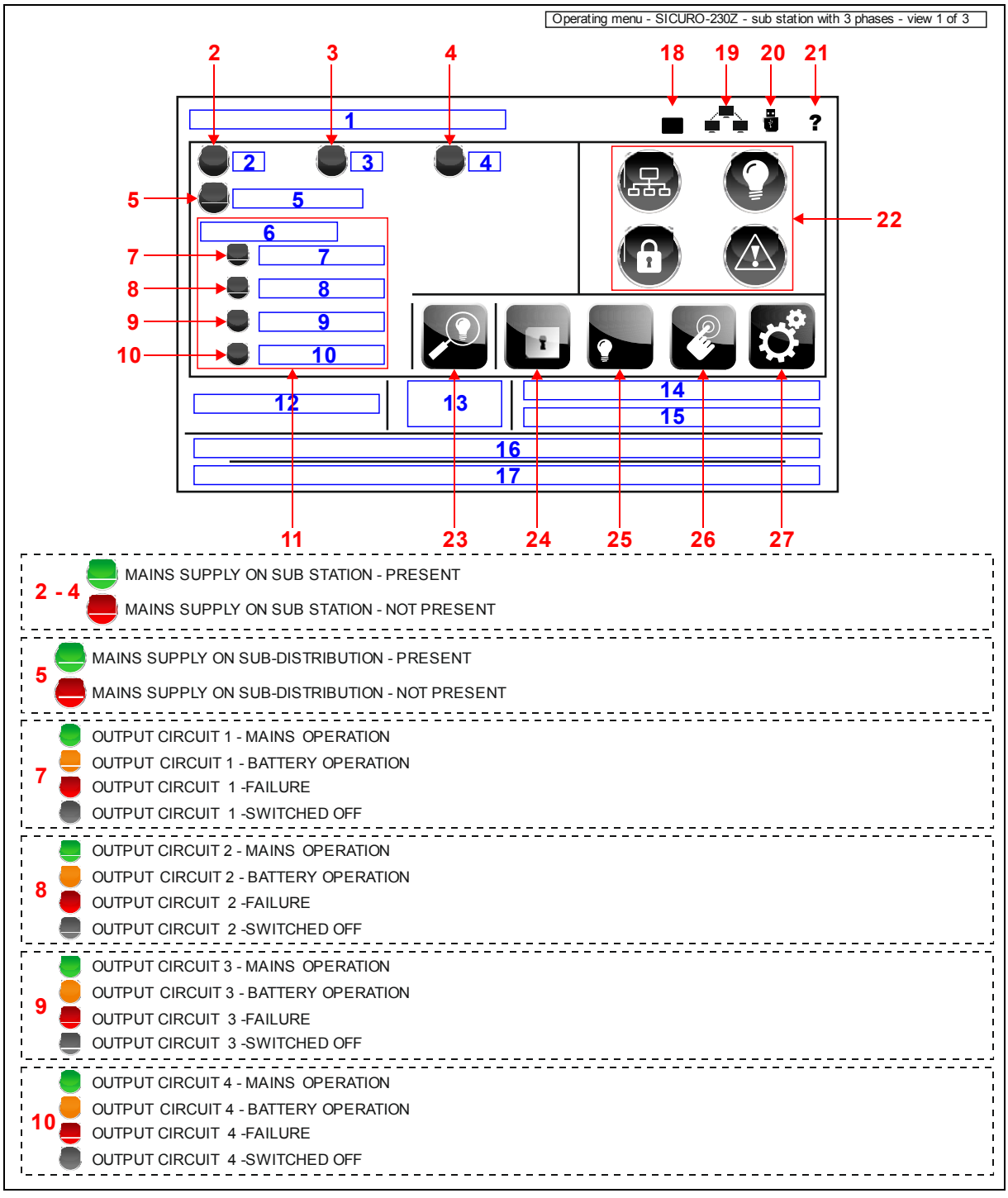
During the activated operational condition the operating menu is indicated in automatic and emergency operation as follows.



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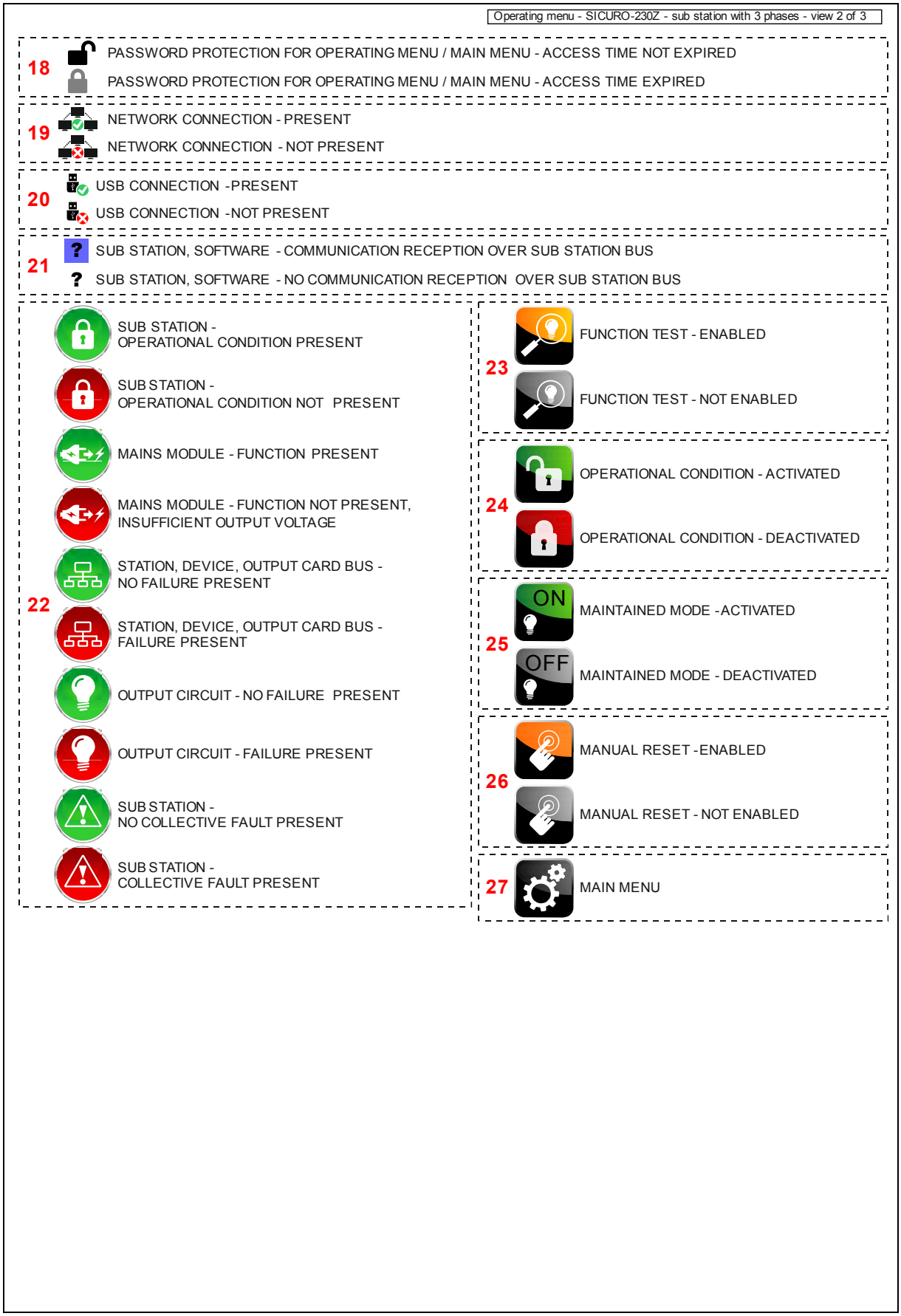

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An actuation of the button field "11" calls up the following view in the operating menu.

"28 - 39": text fields – output card with card address and total current (cyclical) / switchover card with card address

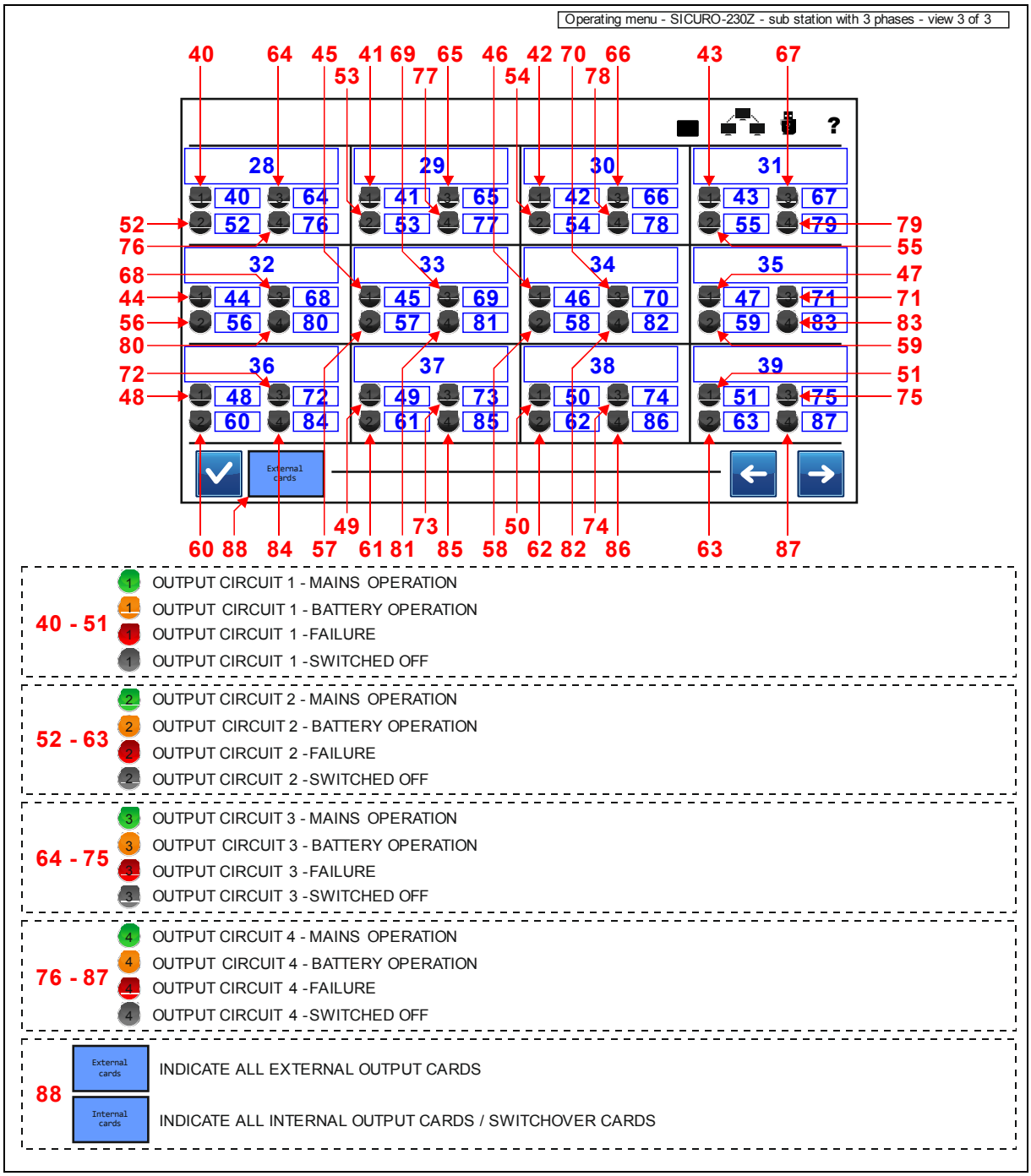
"40 - 51": text fields with optical indications – current for output circuit 1 (measured at last function test / duration test)

"52 - 63": text fields with optical indications – current for output circuit 2 (measured at last function test / duration test)

"64 - 75": text fields with optical indications – current for output circuit 3 (measured at last function test / duration test)

"76 - 87": text fields with optical indications – current for output circuit 4 (measured at last function test / duration test)

"88": text field – indication of all internal / external output cards



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SICURO-230Z – sub station with 1 phase:

"1": text field – operating mode of the sub station, indicated operating modes:
automatic operation, emergency operation with duration, follow-up time

"2": text field with optical indication – mains supply on sub station

"3": text field with optical indication – mains supply on sub-distribution

"4": text field – output card with card address / switchover card with card address

"5": text field with optical indication – current for output circuit 1 (measured at last function test / duration test)

"6": text field with optical indication – current for output circuit 2 (measured at last function test / duration test)

"7": text field with optical indication – current for output circuit 3 (measured at last function test / duration test)

"8": text field with optical indication – current for output circuit 4 (measured at last function test / duration test)

"9": button field – call-up of the view for the detailed information regarding all output cards

"10": text field – station type and station address

"11": text field – date and time of the operating system

"12": text field – date and time of the last function test / duration test

"13": text field – date and time of the next automatic function test / duration test

"14": text field – additional information

"15": text field – additional information

"16": button field with optical indication – password protection for operating menu / main menu,
actuation of the button field before expiration of the access time: reset access time prematurely

"17": button field with optical indication – network connection, actuation of the button field:
indication of the IP address and MAC address of the respective sub station

"18": optical indication – USB connection

"19": button field with optical indication – communication reception over sub station bus,
actuation of the button field: indication of the software version of the operating system

"20": button field with 4 optical indications –
indication of various information regarding the respective sub station,
actuation of the button field: call-up of the menu "INFORMATION"

"21": button field with optical indication – execution of a manual function test

"22": button field with optical indication – deactivation of the operational condition for the respective sub station

"23": button field with optical indication – activation / deactivation of the maintained mode for the respective sub station

"24": button field with optical indication – execution of the manual reset for operating modes
of the output circuits resp. luminaire modules

"25": button field – call-up of the menu "MAIN MENU"

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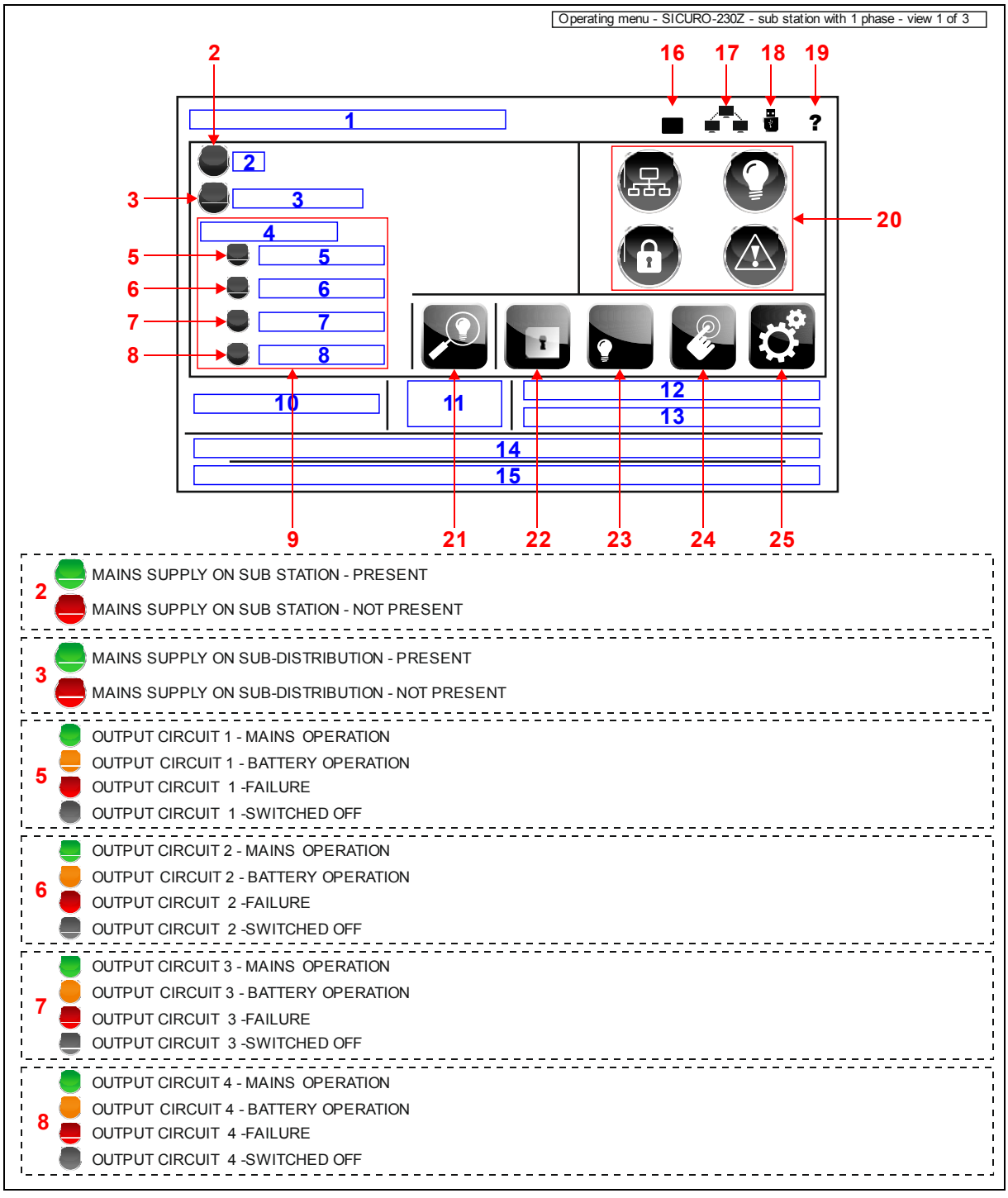
During the activated operational condition the operating menu is indicated in automatic and emergency operation as follows.



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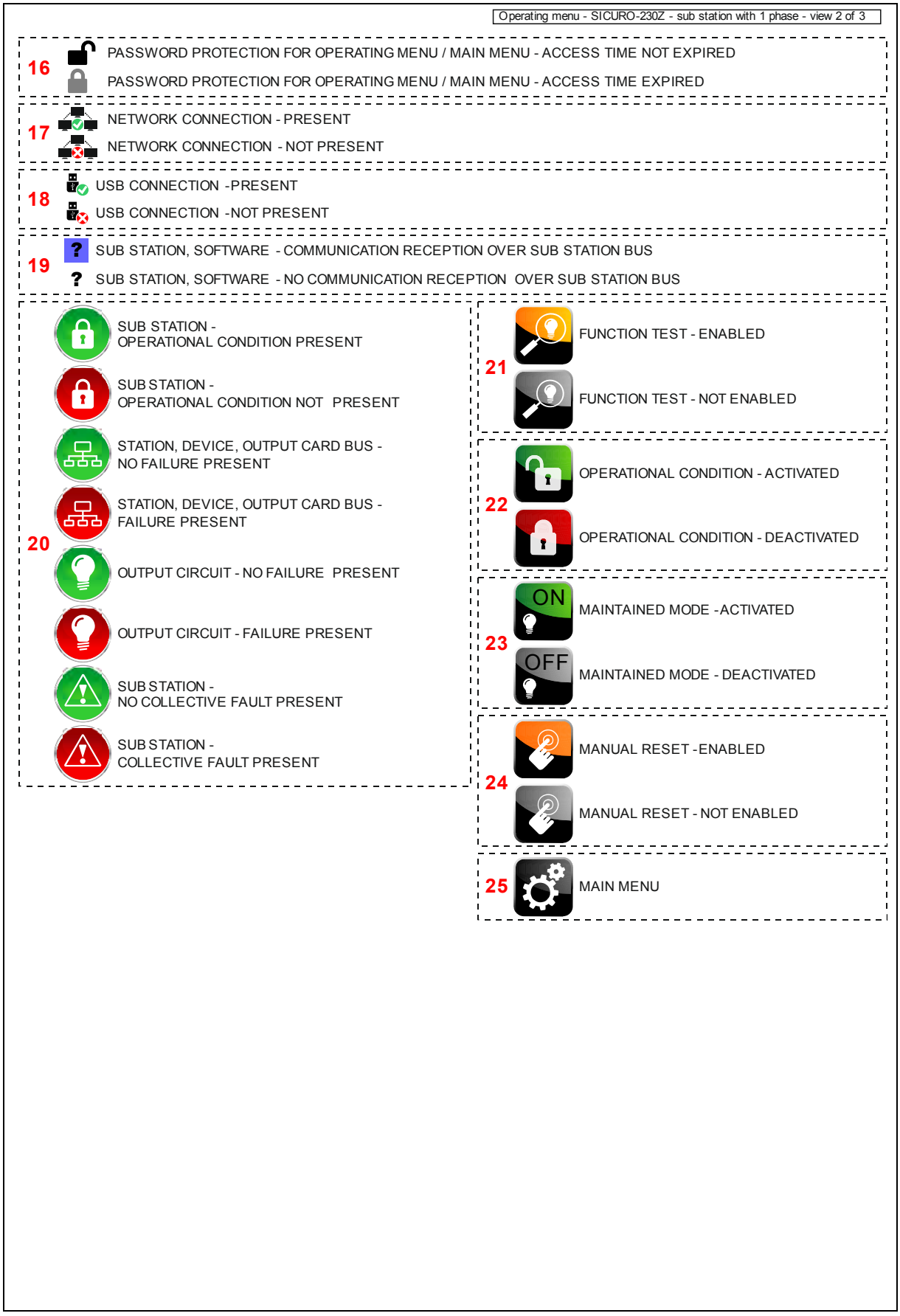

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An actuation of the button field "9" calls up the following view in the operating menu.

"26 - 37": text fields – output card with card address and total current (cyclical) / switchover card with card address

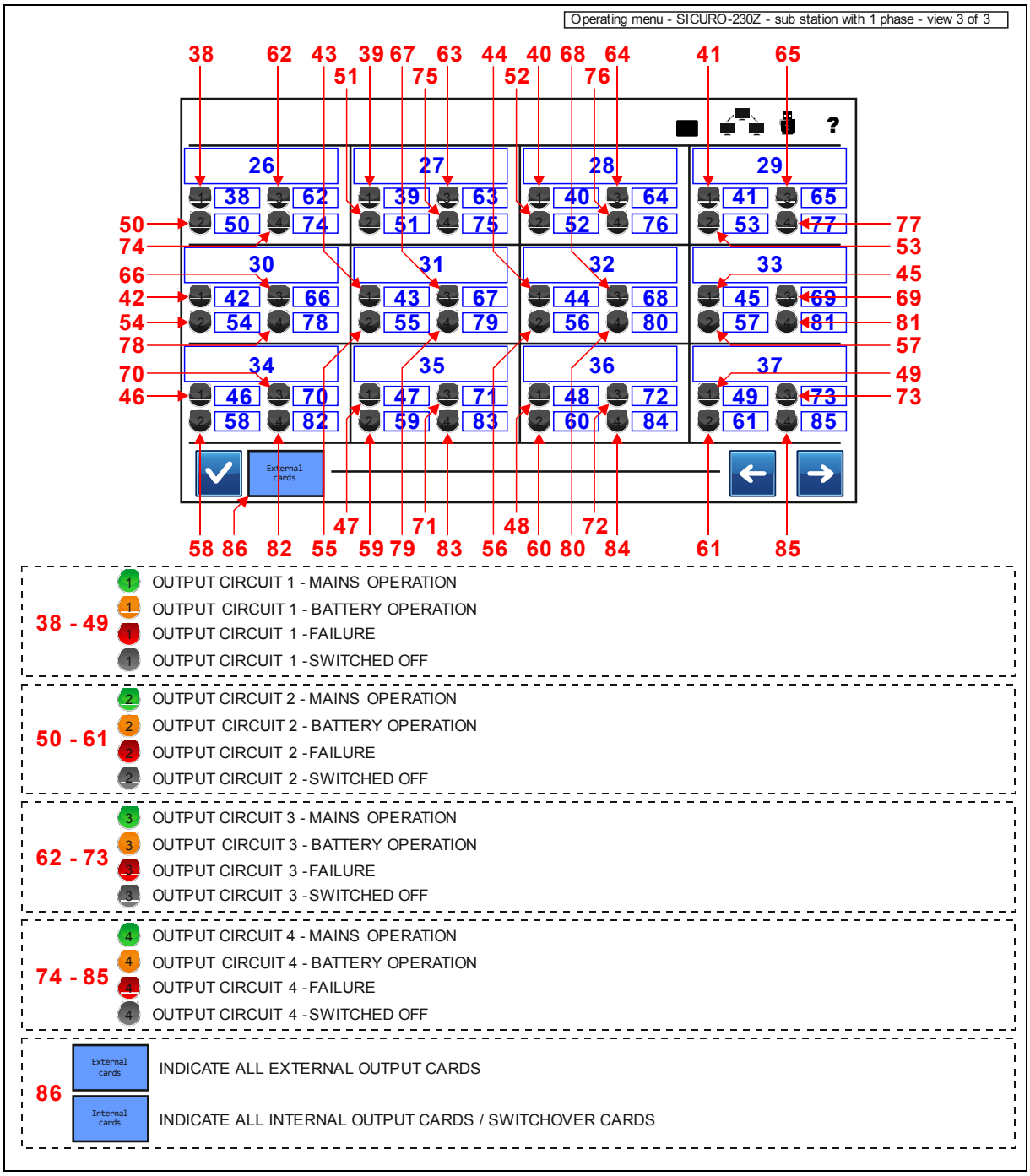
"38 - 49": text fields with optical indications – current for output circuit 1 (measured at last function test / duration test)

"50 - 61": text fields with optical indications – current for output circuit 2 (measured at last function test / duration test)

"62 - 73": text fields with optical indications – current for output circuit 3 (measured at last function test / duration test)

"74 - 85": text fields with optical indications – current for output circuit 4 (measured at last function test / duration test)

"86": text field – indication of all internal / external output cards



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SICURO-24Z:

"1": text field – operating mode of the sub station,
indicated operating modes: automatic operation, emergency operation with duration, follow-up time

"2": text field with optical indication – mains supply / battery supply on sub station

"3": text field with optical indication – mains supply on sub-distribution

"4": text field – output card with card address and total current (cyclical)

"5": text field with optical indication – current for output circuit 1 (measured at last function test / duration test)

"6": text field with optical indication – current for output circuit 2 (measured at last function test / duration test)

"7": text field with optical indication – current for output circuit 3 (measured at last function test / duration test)

"8": text field with optical indication – current for output circuit 4 (measured at last function test / duration test)

"9": text field – station type and station address

"10": text field – date and time of the operating system

"11": text field – date and time of the last function test / duration test

"12": text field – date and time of the next automatic function test / duration test

"13": text field – additional information

"14": text field – additional information

"15": button field with optical indication – password protection for operating menu / main menu,
actuation of the button field before expiration of the access time: reset access time prematurely

"16": button field with optical indication – network connection,
actuation of the button field: indication of the IP address and MAC address of the respective sub station

"17": optical indication – USB connection

"18": button field – indication of the software version of the operating system

"19": button field with 5 optical indications –
indication of various information regarding the respective sub station,
actuation of the button field: call-up of the menu "INFORMATION"

"20": button field with optical indication – execution of a manual function test

"21": button field with optical indication – deactivation of the operational condition for the respective sub station

"22": button field with optical indication – activation / deactivation of the maintained mode for the respective sub station

"23": button field with optical indication – execution of the manual reset for operating modes of the output circuits resp. luminaire modules

"24": button field – call-up of the menu "MAIN MENU"

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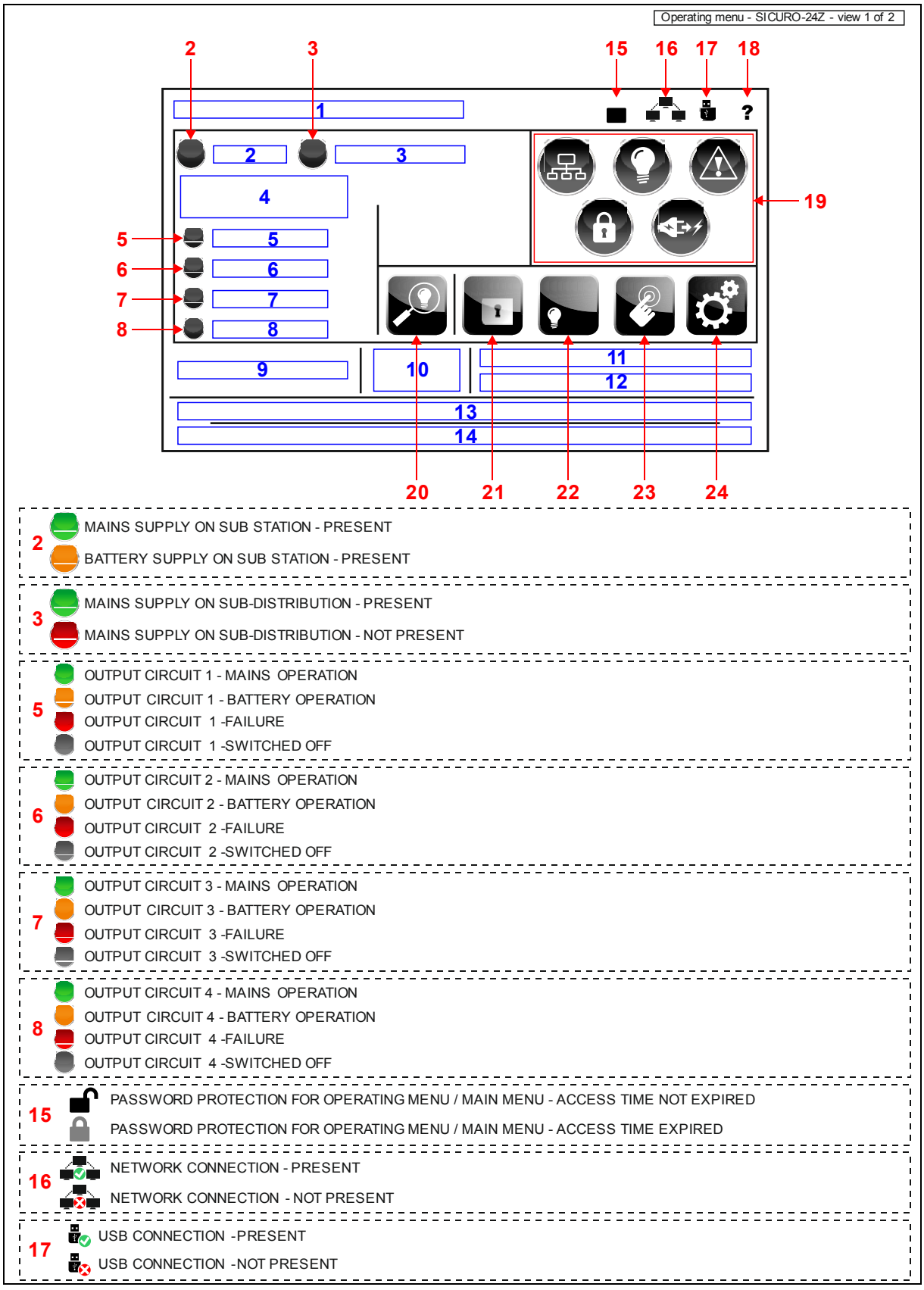
During the activated operational condition the operating menu is indicated in automatic and emergency operation as follows.



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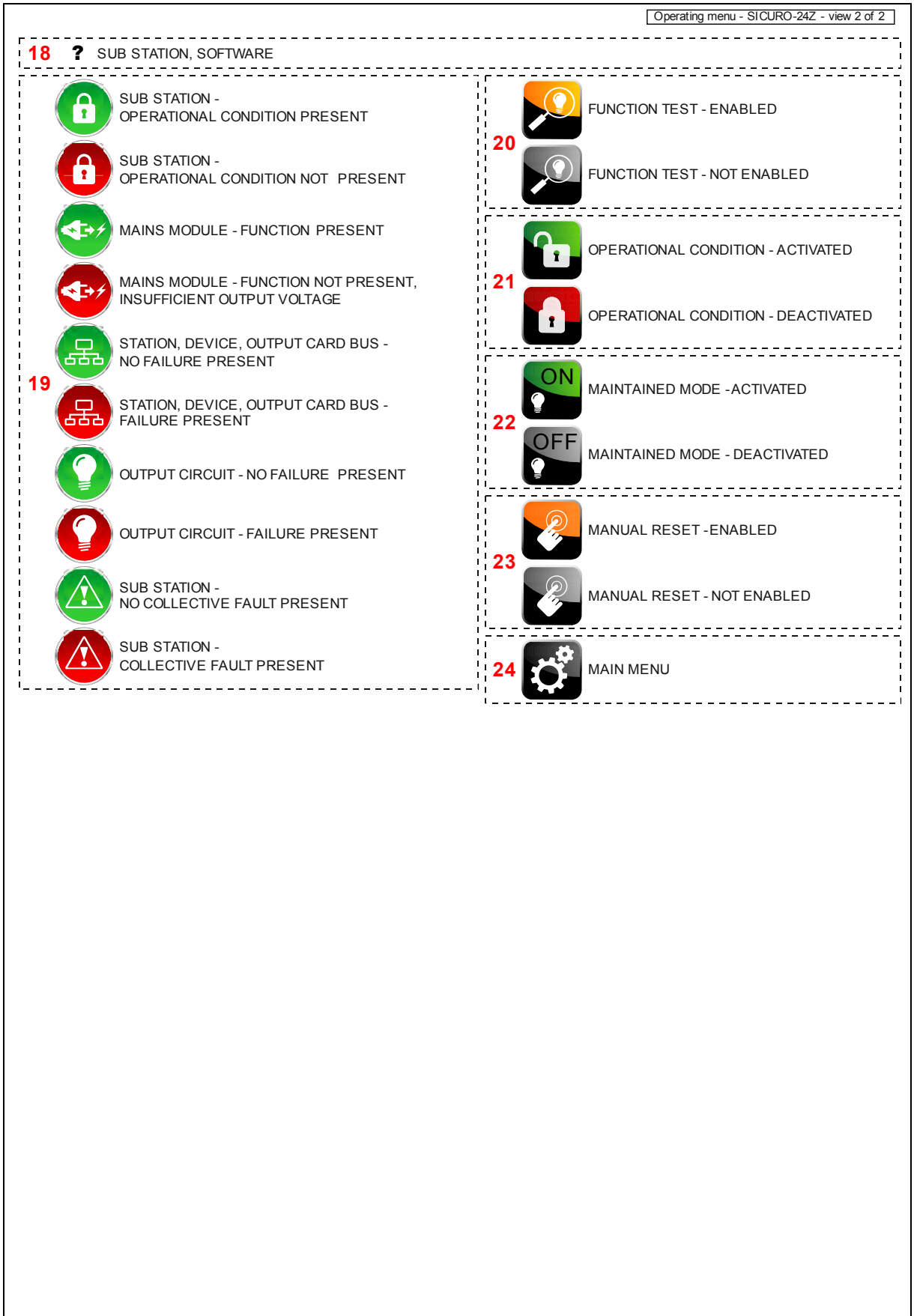

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SICURO-24G:

"1": text field – operating mode of the main station, indicated operating modes:
automatic operation, emergency operation with duration, follow-up time

"2": text field with optical indication – mains supply on main station

"3": text field with optical indication – mains supply on sub-distribution

"4": text field – output card with card address and total current (cyclical)

"5": text field with optical indication – current for output circuit 1 (measured at last function test / duration test)

"6": text field with optical indication – current for output circuit 2 (measured at last function test / duration test)

"7": text field with optical indication – current for output circuit 3 (measured at last function test / duration test)

"8": text field with optical indication – current for output circuit 4 (measured at last function test / duration test)

"9": text field – station type and station address

"10": text field – date and time of the operating system

"11": text field – voltage of the battery supply

"12": text field – charge current / discharge current of the battery supply

"13": text field – date and time of the last function test / duration test

"14": text field – date and time of the next automatic function test / duration test

"15": text field – additional information

"16": text field – additional information

"17": button field with optical indication – password protection for operating menu / main menu,
actuation of the button field before expiration of the access time: reset access time prematurely

"18": button field with optical indication – network connection, actuation of the button field:
indication of the IP address and MAC address of the respective main station

"19": optical indication – USB connection

"20": button field – indication of the software version of the operating system

"21": button field with 8 optical indications –
indication of various information regarding the respective main station,
actuation of the button field:
call-up of the menu "INFORMATION"

"22": button field with optical indication – execution of a manual function test

"23": button field with optical indication – execution of a manual duration test

"24": button field with optical indication – deactivation of the operational condition for the respective main station

"25": button field with optical indication – activation / deactivation of the maintained mode for the respective main station

"26": button field with optical indication – execution of the manual reset for operating modes
of the output circuits resp. luminaire modules

"27": button field – call-up of the menu "MAIN MENU",
execution of the manual reset for the deep discharge protection (if deep discharge protection is activated)

"28": button field during emergency operation with battery supply –
shutdown of the operating system of the respective main station

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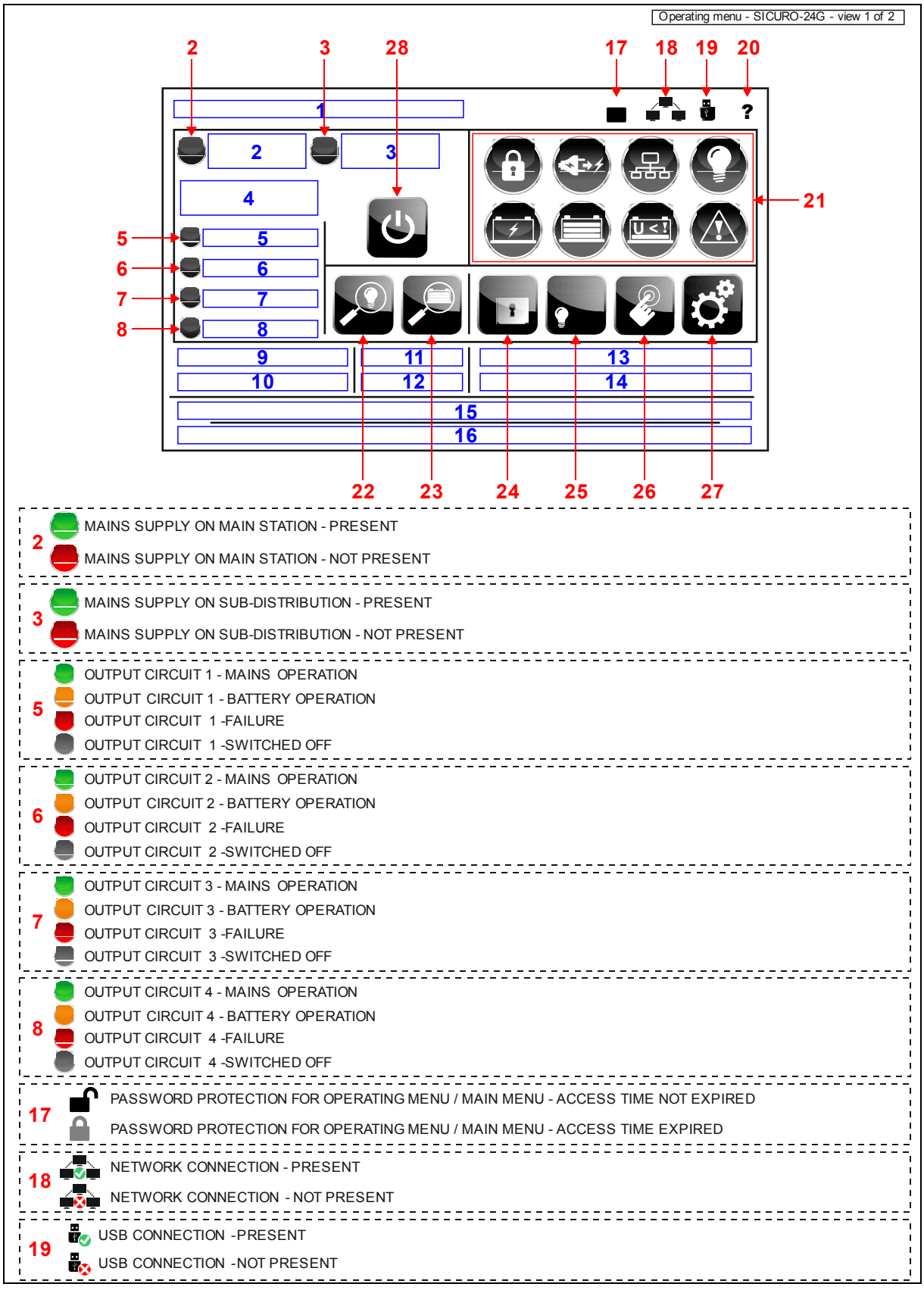
During the activated operational condition the operating menu is indicated in automatic and emergency operation as follows.



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Operating menu - SICURO-24G - view 2 of 2

20 ? MAIN STATION, SOFTWARE

21

- MAIN STATION - OPERATIONAL CONDITION PRESENT
- MAIN STATION - OPERATIONAL CONDITION NOT PRESENT
- MAINS MODULE - FUNCTION PRESENT
- MAINS MODULE - FUNCTION NOT PRESENT, NO / INSUFFICIENT OUTPUT VOLTAGE
- STATION, DEVICE, OUTPUT CARD BUS - NO FAILURE PRESENT
- STATION, DEVICE, OUTPUT CARD BUS - FAILURE PRESENT
- OUTPUT CIRCUIT - NO FAILURE PRESENT
- OUTPUT CIRCUIT - FAILURE PRESENT
- CHARGER MODULE - FUNCTION PRESENT
- CHARGER MODULE - FUNCTION NOT PRESENT
- BATTERY SUPPLY - KEIN VERSORGUNGSFEHLER VORHANDEN
- BATTERY SUPPLY -SUPPLY FAILURE PRESENT, VOLTAGE DEVIATES FROM TARGET VALUE OF THE BATTERY MIDDLE TAPPING
- BATTERY SUPPLY - NO DEEP DISCHARGE PRESENT
- BATTERY SUPPLY - DEEP DISCHARGE PRESENT
- MAIN STATION - NO COLLECTIVE FAULT PRESENT
- MAIN STATION - COLLECTIVE FAULT PRESENT

22

- FUNCTION TEST - ENABLED
- FUNCTION TEST - NOT ENABLED

23

- DURATION TEST - ENABLED
- DURATION TEST - NOT ENABLED

24

- OPERATIONAL CONDITION - ACTIVATED
- OPERATIONAL CONDITION - DEACTIVATED

25

- MAINTAINED MODE - ACTIVATED
- MAINTAINED MODE - DEACTIVATED

26

- MANUAL RESET - ENABLED
- MANUAL RESET - NOT ENABLED

27 MAIN MENU, RESET FOR DEEP DISCHARGE PROTECTION

28 SHUT DOWN OPERATING SYSTEM , ONLY VISIBLE DURING EMERGENCY OPERATION WITH BATTERY SUPPLY

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Button field "INFORMATION"

An actuation of the button field "INFORMATION" calls up the sub menu "INFORMATION" (see sub menu 1-11).

Button field "START FUNCTION TEST"

Main station:

An actuation of the button field "START FUNCTION TEST" executes a manual function test on the respective main station together with all connected sub stations where appropriate (see sub menu 1-6).

Sub station:

An actuation of the button field "START FUNCTION TEST" executes a manual function test on the respective sub station (see sub menu 1-6).

Button field "START DURATION TEST"

An actuation of the button field "START DURATION TEST" executes a manual duration test on the respective main station together with all connected sub stations where appropriate (see sub menu 1-7).

Button field "START INSULATION TEST"

SICURO-230Z:

An actuation of the button field "START INSULATION TEST" executes a manual insulation test on the respective main station together with all connected sub stations where appropriate (see sub menu 1-8).

SICURO-24Z and SICURO-24G:

The device function "INSULATION TEST" is not available at SICURO-24Z systems and SICURO-24G systems.

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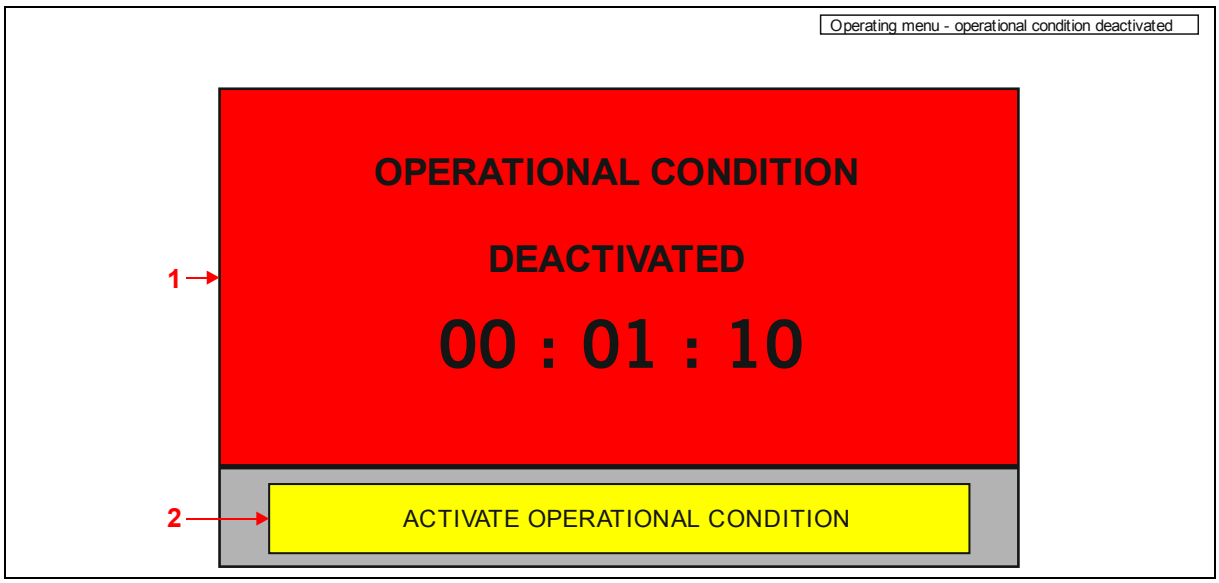
Button field "DEACTIVATE OPERATIONAL CONDITION"

"1": text field – warning message with duration of the deactivated operational condition

"2": button field – activation of the operational condition of the respective emergency light station

During the deactivated operational condition the operating menu is indicated as follows.



Attention: **During the deactivated operational condition the operating system of the respective emergency light station switches not into the emergency operation at occurring supply failures. This does apply in case of a general supply failure as well as in case of a partial supply failure. During a present supply failure a deactivation of the operational condition ends the emergency operation of the respective emergency light station prematurely. This does apply in case of a general supply failure as well as in case of a partial supply failure.**

Main station:

An actuation of the button field "DEACTIVATE OPERATIONAL CONDITION" deactivates the operational condition and all operating modes of the output circuits of all output cards on the respective main station. Outputs of switchover cards will not be deactivated. At deactivated operational condition the main station can not switch into the emergency operation with mains supply (mains operation – AC) or the emergency operation with battery supply (battery operation – DC). By the deactivation of all operating modes the output circuits of all output cards are switched off as well if no general or partial supply failure is present.

Sub station:

An actuation of the button field "DEACTIVATE OPERATIONAL CONDITION" deactivates the operational condition and all operating modes of the output circuits of all output cards on the respective sub station. Outputs of switchover cards will not be deactivated. At deactivated operational condition the sub station can not switch into the emergency operation with mains supply (mains operation – AC) or the emergency operation with battery supply (battery operation – DC). By the deactivation of all operating modes the output circuits of all output cards are switched off as well if no general or partial supply failure is present.

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Button field "ACTIVATE / DEACTIVATE MAINTAINED MODE"

Attention: **During the deactivated maintained mode the operating system of the respective emergency light station switches into the emergency operation at occurring supply failures in case of a general supply failure.**

During the deactivated maintained mode the operating system of the respective emergency light station switches into the emergency operation at occurring supply failures in case of a partial supply failure, if the supply failure was detected by the critical circuit.

During the deactivated maintained mode the operating system of the respective emergency light station switches not into the emergency operation at occurring supply failures in case of a partial supply failure, if the supply failure was detected by a LSSA switch input with the query function "Sub-distribution".

Main station:

An actuation of the button field "ACTIVATE / DEACTIVATE MAINTAINED MODE" activates / deactivates the operating mode "Maintained mode" of the output circuits on the respective main station together with all connected sub stations where appropriate.

> At deactivated maintained mode the output circuits are operated in the operating mode "Non-maintained mode", if the operating mode "Maintained mode" is programed. The operating modes "Time switch", "Stairway pushbutton" and "Switchable" of the output circuits will not be deactivated.

> At deactivated maintained mode the luminaire modules are not operated. The operating modes "Maintained mode", "Non-maintained mode" and "Groups" of the luminaire modules will be deactivated.

Sub station:

An actuation of the button field "ACTIVATE / DEACTIVATE MAINTAINED MODE" activates / deactivates the operating mode "Maintained mode" of the output circuits on the respective sub station.

> At deactivated maintained mode the output circuits are operated in the operating mode "Non-maintained mode", if the operating mode "Maintained mode" is programed. The operating modes "Time switch", "Stairway pushbutton" and "Switchable" of the output circuits will not be deactivated.

> At deactivated maintained mode the luminaire modules are not operated. The operating modes "Maintained mode", "Non-maintained mode" and "Groups" of the luminaire modules will be deactivated.

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Button field "MANUAL RESET"

An actuation of the button field "MANUAL RESET" or a command initiation over the switch input "user definition" executes the manual reset of operating modes for output circuits resp. luminaire modules (see sub menu 1-1-2). The reset can not be used selective and is related to all output circuits resp. all connected luminaire modules of the respective emergency light station.

Note: **For execution of a manual reset over the button field "MANUAL RESET" or over the switch input "user definition" the manual reset in the sub menu "SYSTEM 1/6" must be activated (see sub menu 1-1-2).**

For execution of a manual reset over the switch input "user definition" the query function "Manual reset" in the sub menu "LSSA inputs" must be used further on (see sub menu 1-1-3).

If the operating mode "Switchable" was selected for an output circuit resp. a group with an added luminaire module and the associated query function "Manual reset" is in use, then the manual reset of the respective equipment over the button field "MANUAL RESET" and over the switch input "user definition" is deactivated.

Button field "MAIN MENU"

An actuation of the button field "MAIN MENU" calls up the main menu "MAIN MENU" (see main menu 1).

At activated deep discharge protection:

An actuation of the button field "MAIN MENU" calls up an input prompt to execute a manual reset where the operating system deactivates the deep discharge protection.

Button field "SHUT DOWN SYSTEM"

SICURO-230Z – main station,
SICURO-24G – main station:

An actuation of the button field "SHUT DOWN SYSTEM" shuts the operating system of the respective main station during a general supply failure down. During the shutdown the executed emergency operation (battery operation – DC) is ended. After a return of the mains supply the operating system executes a warm start.

Note: **The device function "SHUT DOWN SYSTEM" is only available during an emergency operation with battery supply (battery operation – DC).**

SICURO-230Z – sub station without combined mains and battery supply,
SICURO-230Z – sub station with combined mains and battery supply,
SICURO-24Z – sub station with combined mains and battery supply:

The device function "SHUT DOWN SYSTEM" is not available at SICURO-230Z and SICURO-24Z sub stations.

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1 "MAIN MENU"

The main menu consists of the following sub menus:

- 1-1 "CONFIGURATION"
- 1-2 "LUMINAIRES"
- 1-3 "OUTPUT CIRCUITS"
- 1-4 "GROUPS"
- 1-5 "READ-IN"
- 1-6 "FUNCTION TEST"
- 1-7 "DURATION TEST"
- 1-8 "INSULATION TEST"
- 1-9 "DEEP DISCHARGE TEST"
- 1-10 "TEST RESULTS"
- 1-11 "INFORMATION"
- 1-12 "BATTERY STATUS"
- 1-13 "CHARGER"
- 1-14 "SERVICE"

1-1 "CONFIGURATION"

The sub menu consists of the following sub menus:

- 1-1-1 "TEST SETTINGS"
- 1-1-2 "SYSTEM"
- 1-1-3 "LSSA INPUTS"
- 1-1-4 "POTENTIAL-FREE CONTACTS"
- 1-1-5 "DATE & TIME"
- 1-1-6 "TIME SWITCH"
- 1-1-7 "SOFTWARE"
- 1-1-8 "DYNAMIC SWITCH"

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1-1-1 "TEST SETTINGS"

In the sub menu "TEST SETTINGS" the device functions and device parameters for function tests, duration tests and maintenances are configured.

Attention: **Function tests and duration tests are defined by country-specific norms. Within Europe the harmonised norm EN 50171 / EN 62034 has to be observed. The device functions and device parameters have to be set in accordance with the respective norms.**

View – 1 of 2:

► "Function test:" ► "Automatic test:" ► "Activated" / "Deactivated":
button fields – activation / deactivation of the automatic function tests

► "Function test:" ► "Next test:":
button fields – activation of the date and the time for the next automatic function test

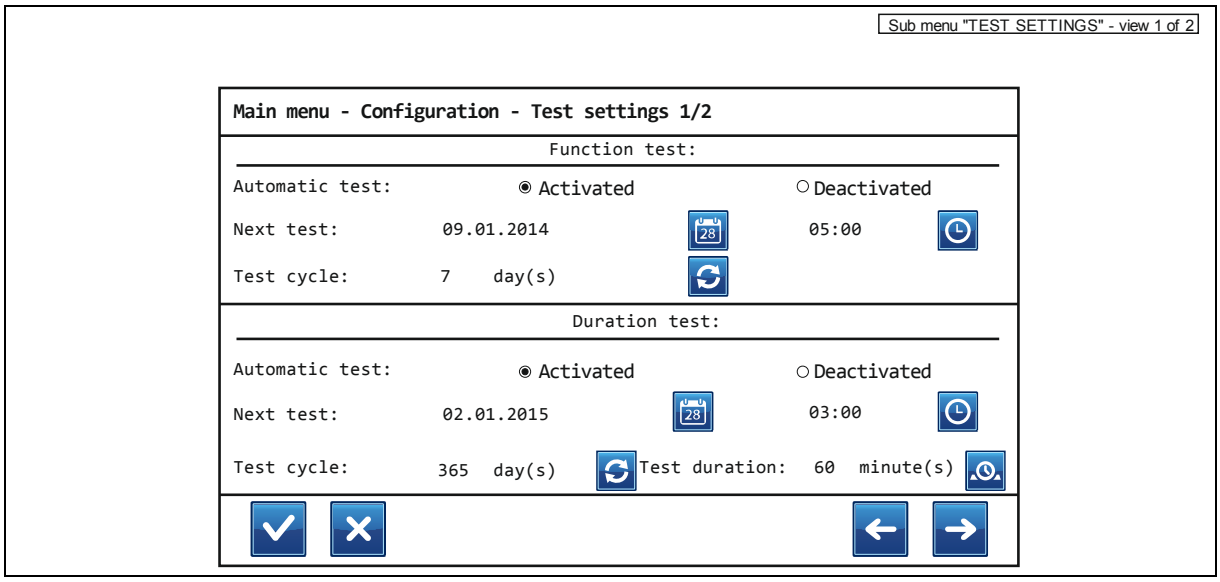
► "Function test:" ► "Test cycle:":
button field – input of the cycle for the automatic function tests (1 - 31 days)

► "Duration test:" ► "Automatic test:" ► "Activated" / "Deactivated":
button fields – activation / deactivation of the automatic duration tests

► "Duration test:" ► "Next test:":
button fields – input of the date and the time for the next automatic duration test

► "Duration test:" ► "Test cycle:":
button field – input of the cycle for the automatic duration tests (1 - 365 days)

► "Duration test:" ► "Test duration:":
button field – input of the duration for the duration tests (1 - 600 minutes)



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An actuation of the button field ➔ calls up the following view in the sub menu "TEST SETTINGS 1/2".

View – 2 of 2:

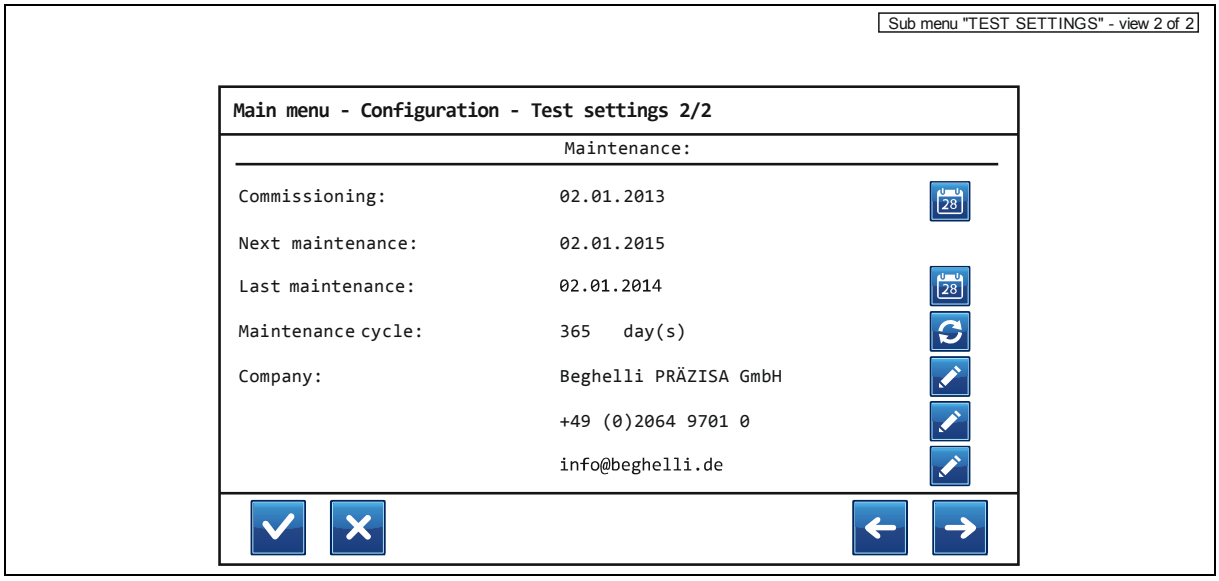
► "Maintenance:" ► "Commissioning:":
button field – input of the date for the performed commissioning

► "Maintenance:" ► "Next maintenance:":
text field – indication of the date for the next scheduled maintenance

► "Maintenance:" ► "Last maintenance:":
button field – input of the date for the last performed maintenance

► "Maintenance:" ► "maintenance cycle:":
button field – input of the cycle for the scheduled maintenances (1 - 365 days)

► "Maintenance:" ► "Company:":
button fields – free input of contact data for the concerned company (3 x 0 - 32 signs)



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1-1-2 "SYSTEM"

In the sub menu "SYSTEM" the system settings for the operating system are configured.

View – 1 of 8:

► "Station:" ► "Type:":
text field – indication of the station type for the respective emergency light station

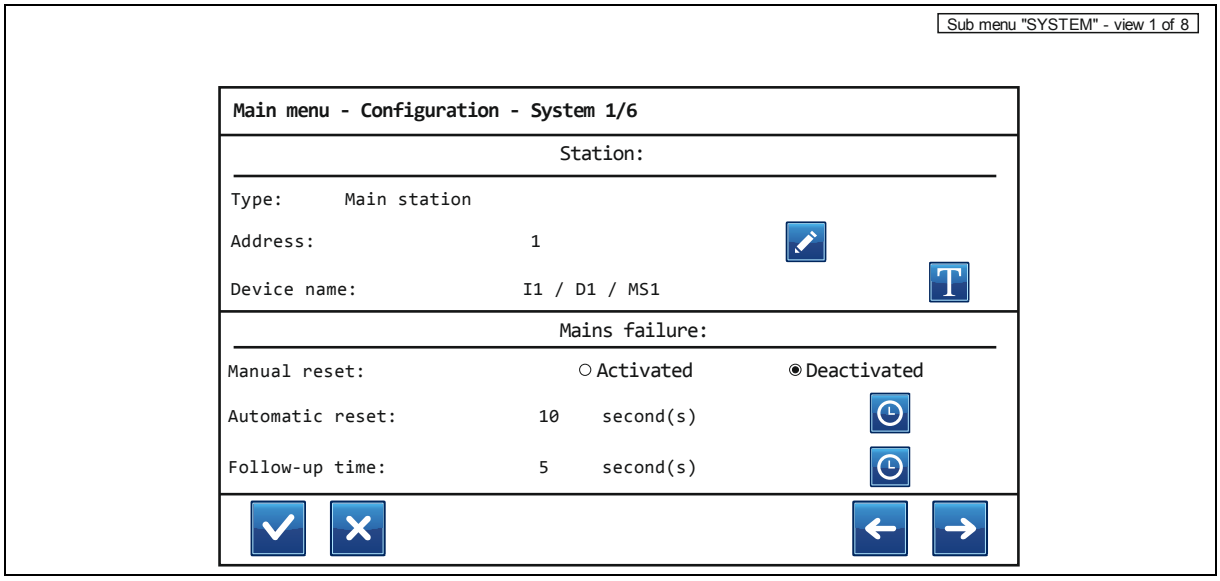
► "Station:" ► "Address:":
button field – input of the station address (main station: 1 - 128, sub station: 1 - 32)

► "Station:" ► "Device name:":
button field – free input of the device name (0 - 32 signs)

► "Mains failure:" ► "Manual reset:" ► "Activated" / "Deactivated":
button fields – activation / deactivation of the manual reset

► "Mains failure:" ► "Automatic reset:":
button field – input of the duration for the automatic reset (1 - 300 seconds)

► "Mains failure:" ► "Follow-up time:":
button field – input of the duration for the follow-up time (1 - 300 seconds)



Manual reset –
manual reset of operating modes for output circuits resp. luminaire modules:

The operating modes of the output circuits resp. luminaire modules can be either reset by the deactivation of the manual reset automatically after a set time or by the activation of the manual reset manually. The reset can not be used selective and is related to all output circuits resp. all connected luminaire modules of the respective emergency light station.

Note: **The manual reset is performed by an actuation of the button field "MANUAL RESET" in the operating menu or by a command initiation over the switch input "user definition". The possibility for manual reset is indicated optically by the button field "MANUAL RESET".**

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For execution of a manual reset over the switch input "user definition" the query function "Manual reset" in the sub menu "LSSA inputs" must be used (see sub menu 1-1-3).

If the operating mode "Switchable" was selected for an output circuit resp. a group with an added luminaire module and the associated query function "Manual reset" is in use, then the manual reset of the respective equipment over the button field "MANUAL RESET" and over the switch input "user definition" is deactivated.

Automatic reset –
automatic, delayed reset of operating modes for output circuits resp. luminaire modules:

After a general supply failure or a partial supply failure on the critical circuit followed by a return of the mains supply the output circuits resp. luminaire modules of the respective emergency light station stay switched on for the set time and will be reset to the respective operating mode after this. This delay function is only executed if the supply failure was present on the mains supply or on the critical circuit of the emergency light station. This does not apply if the supply failure was detected by a LSSA switch input with the query function "Sub-distribution". The reset can not be used selective and is related to all output circuits resp. all connected luminaire modules of the respective emergency light station.

Note: **An actuation of the button field "MANUAL RESET" in the operating menu or a command initiation over the switch input "user definition" ends the procedure of the automatic reset prematurely. The possibility for manual reset is indicated optically by the button field "MANUAL RESET".**

Follow-up time –
delayed switchback from battery supply to mains supply:

After a general supply failure followed by a return of the mains supply the respective emergency light station stays on battery supply for the set time and switches back to mains supply after this. This delay function is only executed if the supply failure was present on the mains supply of the emergency light station. This does not apply if the supply failure was detected by the critical circuit or a LSSA switch input with the query function "Sub-distribution".

Automatic reset and follow-up time – collaboration:

The follow-up time is executed whereas a smaller time of the automatic reset compared to the follow-up time has no effect. A larger time of the automatic reset compared to the follow-up time takes effect with the time-wise difference in which the emergency light station switches back to the mains supply however the output circuits and luminaire modules are still switched on for the rest of the time of the automatic reset.

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SICURO-230Z:

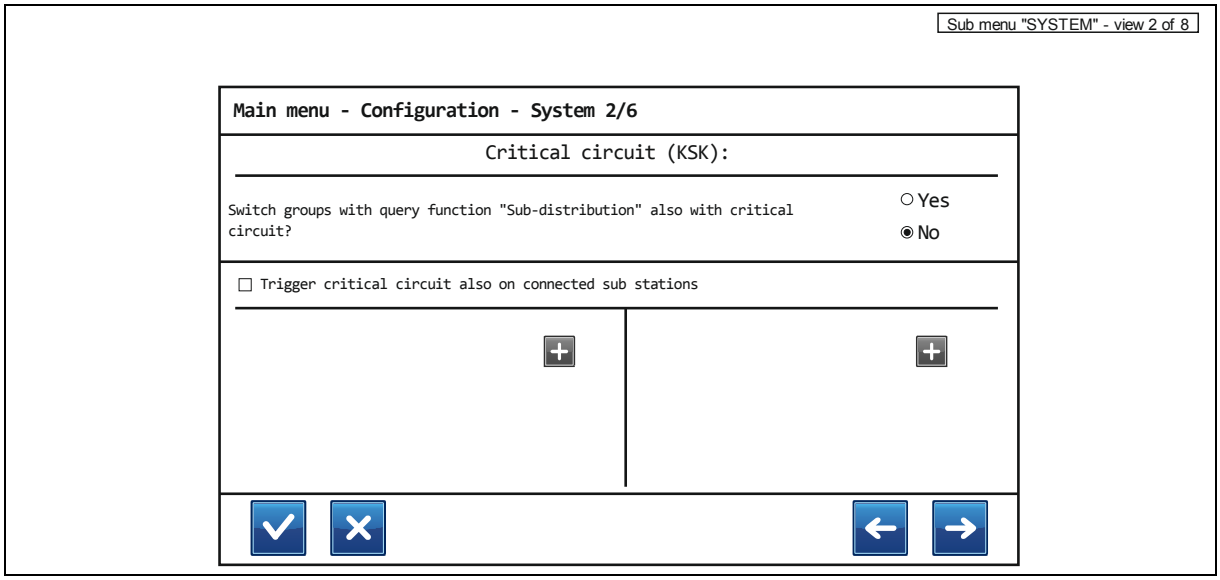
An actuation of the button field ➡ calls up the following view in the sub menu "SYSTEM 1/6".

View – 2 of 8:

► "Critical circuit (KSK):"
► "Switch groups with query function "Sub-distribution" also with critical circuit?"
► "Yes" / "No":
button fields – activation / deactivation of the device function to switch groups with the query function "Sub-distribution" with the critical circuit during a partial supply failure

► "Critical circuit (KSK):"
► "Trigger critical circuit also on connected sub stations":
button field – activation / deactivation of the device function for transfer of the detection of a partial supply failure from the critical circuit of the respective main station to the critical circuits of all connected sub stations

Attention: **The device function "Trigger critical circuit also on connected sub stations" may only be used, if the respective sub stations are connected over the sub station bus (RS485). If the respective sub stations are connected over network (LAN), no failure and fault safety can be ensured by Beghelli PRÄZISA regarding the communication and safety-relevant malfunctions can occur.**



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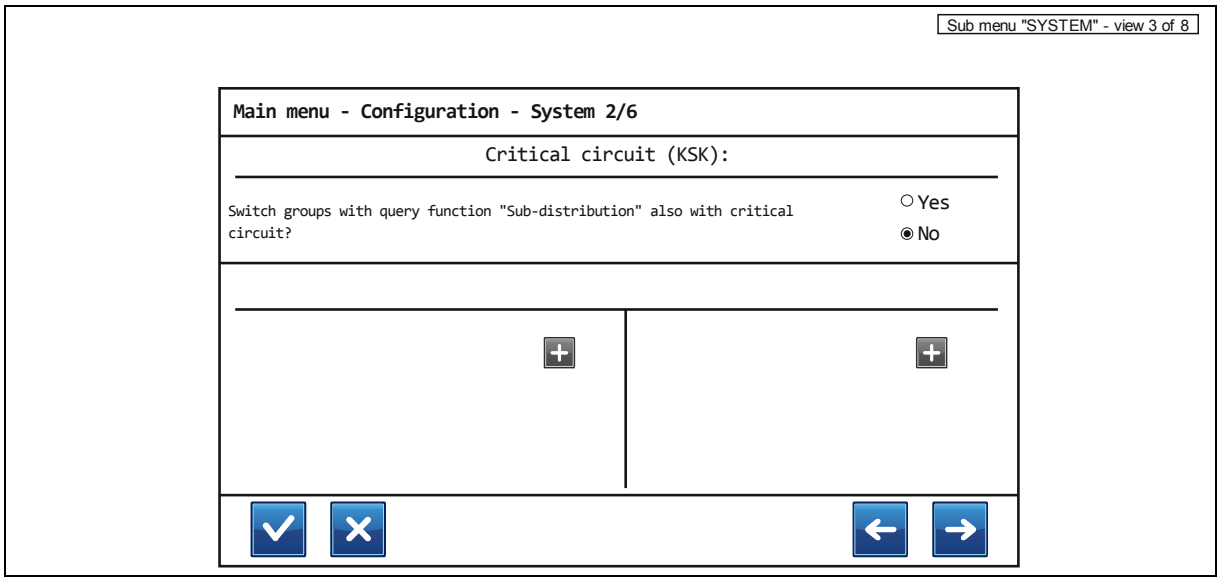
SICURO-24Z and SICURO-24G:

An actuation of the button field → calls up the following view in the sub menu "SYSTEM 1/6".

View – 3 of 8:

► "Critical circuit (KSK):"
► "Switch groups with query function "Sub-distribution" also with critical circuit?"
► "Yes" / "No":
button fields – activation / deactivation of the device function to switch groups with the query function "Sub-distribution" with the 2critical circuit during a partial supply failure



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An actuation of the button field ➔ calls up the following view in the sub menu "SYSTEM 2/6".

View – 4 of 8:

► "Network settings:" ► "IP address:":
button field – input of the IP address for the respective emergency light station

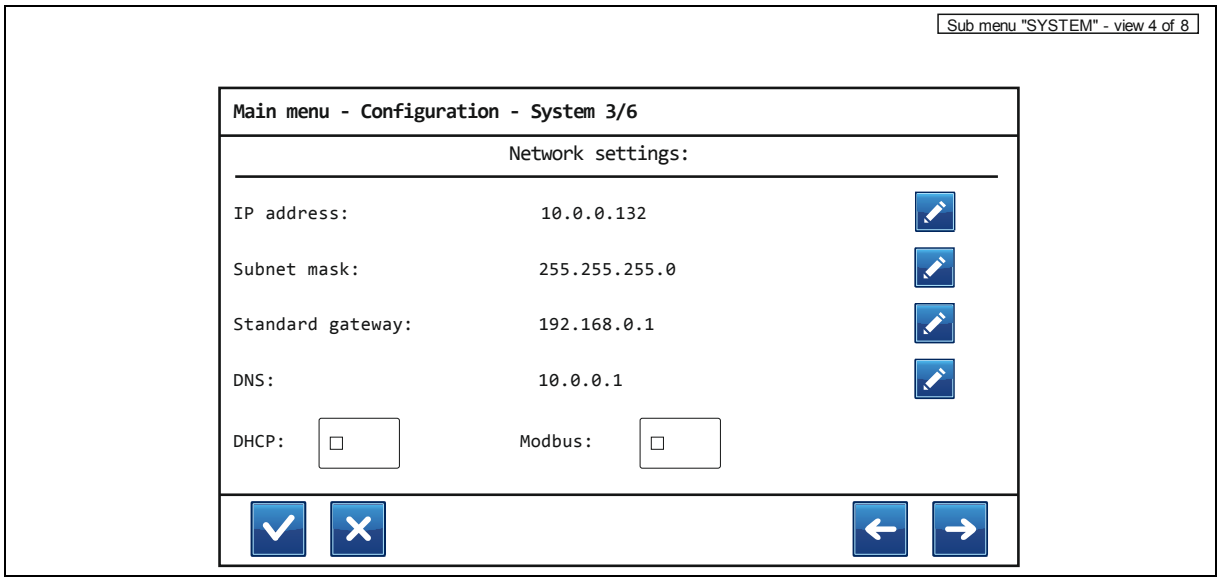
► "Network settings:" ► "Subnet mask:":
button field – input of the subnet mask for the respective emergency light station

► "Network settings:" ► "Standard gateway:":
button field – input of the standard gateway for the respective emergency light station

► "Network settings:" ► "DNS:":
button field – input of the IP address of the DNS server for the respective emergency light station

► "Network settings:" ► "DHCP:":
button field – activation / deactivation of the network communication protocol DHCP for the respective emergency light station

► "Network settings:" ► "Modbus:":
button field – activation / deactivation of the Modbus (RTU) for the respective emergency light station,
activation: use of the main station bus as Modbus interface (RTU),
deactivation: use of the main station bus as company-specific interface



Note:

The manual inputs regarding the IP address, the subnet mask and the standard gateway are not possible when the network communication protocol DHCP is activated.

The automatic allocation of the network configuration is only executed once after the network communication protocol DHCP was activated and this change is subsequently saved as well as after a cold start or a warm start of the emergency light station where the network communication protocol DHCP was activated previously.

For an automatic allocation of the network configuration a permanent network connection must be present. After an interruption of the network connection no automatic allocation of the network configuration is executed.

For the use of the network as Modbus interface (TCP) no activation is required.

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An actuation of the button field ➔ calls up the following view in the sub menu "SYSTEM 3/6".

View – 5 of 8:

"1": button field – test of the e-mail function by sending of a test e-mail

"2": text field with optical indication – entered password with covert signs for the e-mail communication

"3": button field – call-up of the view for the sending options of the e-mail function

► "E-mail settings:" ► "SSL" / "TLS" / "Non-encrypted":
button fields – selection of the encryption method SSL or TLS resp. selection of a non-encrypted transfer for the e-mail communication

► "E-mail settings:" ► "E-mail function:" ► "Activated" / "Deactivated ":
button fields – activation / deactivation of the e-mail function

► "E-mail settings:" ► "Acceptor:":
button field – input of the e-mail address for the acceptor (max. 32 signs total)

► "E-mail settings:" ► "Sender:":
button field – input of the e-mail address for the sender (max. 32 signs total)

► "E-mail settings:" ► "Password:":
button field – input of the password

► "E-mail settings:" ► "E-mail server:":
button field – input of the e-mail server (max. 32 signs total)

► "E-mail settings:" ► "Port:":
button field – input of the port

► "E-mail settings:" ► "Subject:":
button field – free input of the subject for the e-mail (0 - 32 signs)

► "E-mail settings:" ► "Text:":
button field – free input of the text for the e-mail (0 - 32 signs)

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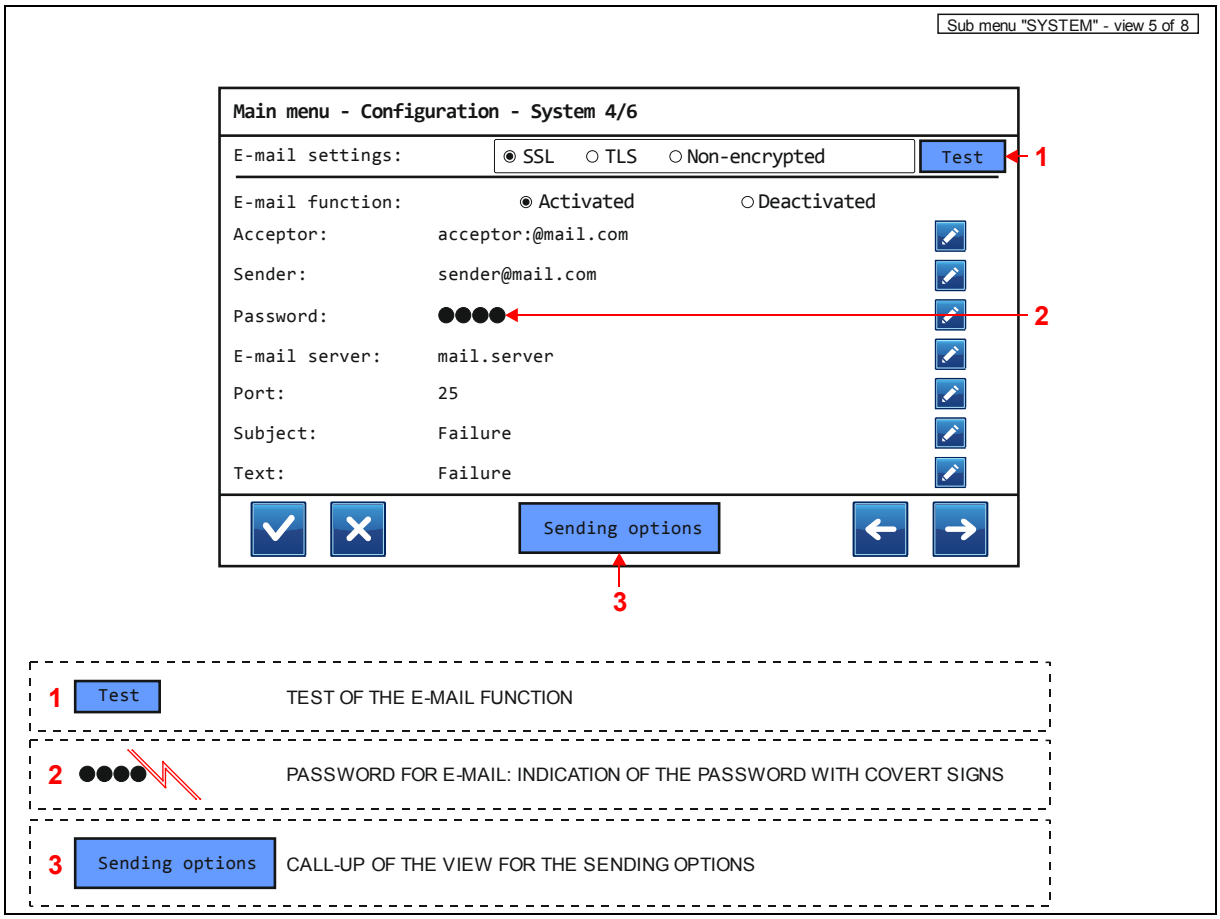

E-mail function:

Every emergency light station can automatically send e-mails at the occurrence of selectable events.

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An actuation of the button field "3" calls up the following view in the sub menu "SYSTEM 4/6".

View – 6 of 8:

"1": button field – test of the e-mail function by sending of a test e-mail

"2": button field – call-up of the view for the sending options of the e-mail function

► "E-mail settings:" ► "SSL" / "TLS" / "Non-encrypted":
button fields – selection of the encryption method SSL or TLS resp. selection of a non-encrypted transfer for the e-mail communication

► "E-mail settings:" ► "E-mail function:" ► "Activated" / "Deactivated ":
button fields – activation / deactivation of the e-mail function

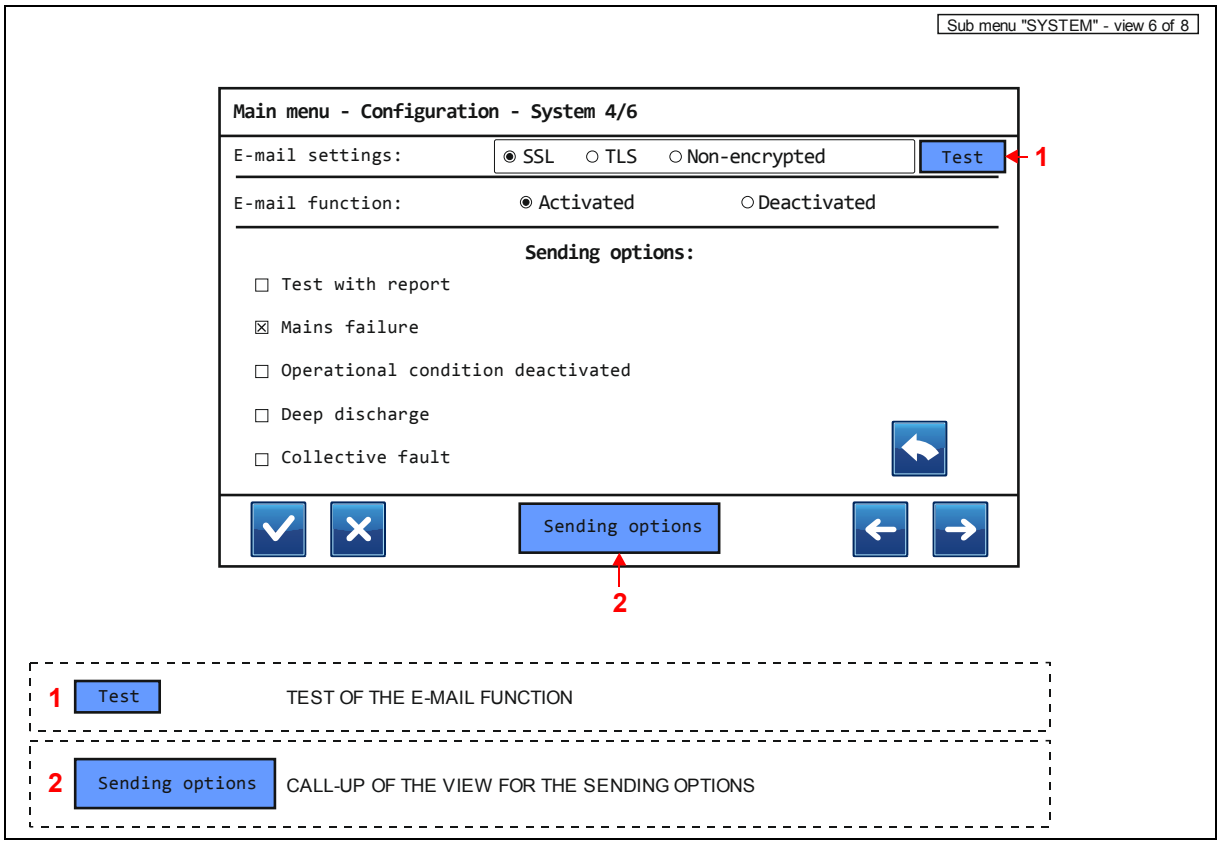
► "E-mail settings:" ► "Sending options:" ► "Test with report":
button field – activation / deactivation of the sending for an e-mail with report after a function test / duration test

► "E-mail settings:" ► "Sending options:" ► "Mains failure":
button field – activation / deactivation of the sending for an e-mail at a mains failure

► "E-mail settings:" ► "Sending options:" ► "Operational condition deactivated":
button field – activation / deactivation of the sending for an e-mail at deactivated operational condition

► "E-mail settings:" ► "Sending options:" ► "Deep discharge":
button field – activation / deactivation of the sending for an e-mail at deep discharge of the battery supply

► "E-mail settings:" ► "Sending options:" ► "Collective fault":
button field – activation / deactivation of the sending for an e-mail at a collective fault



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An actuation of the button field ➔ calls up the following view in the sub menu "SYSTEM 4/6".

View – 7 of 8:

"1": text field with optical indication – entered password with covert signs for access to the operating menu

"2": text field with optical indication – entered password with covert signs for access to the main menu

"3": button field – reset of the access data (query by web browser) for the web server

► "Password protection operating menu:" ► "Protection:" ► "Activated" / "Deactivated":
button fields – activation / deactivation of the password protection

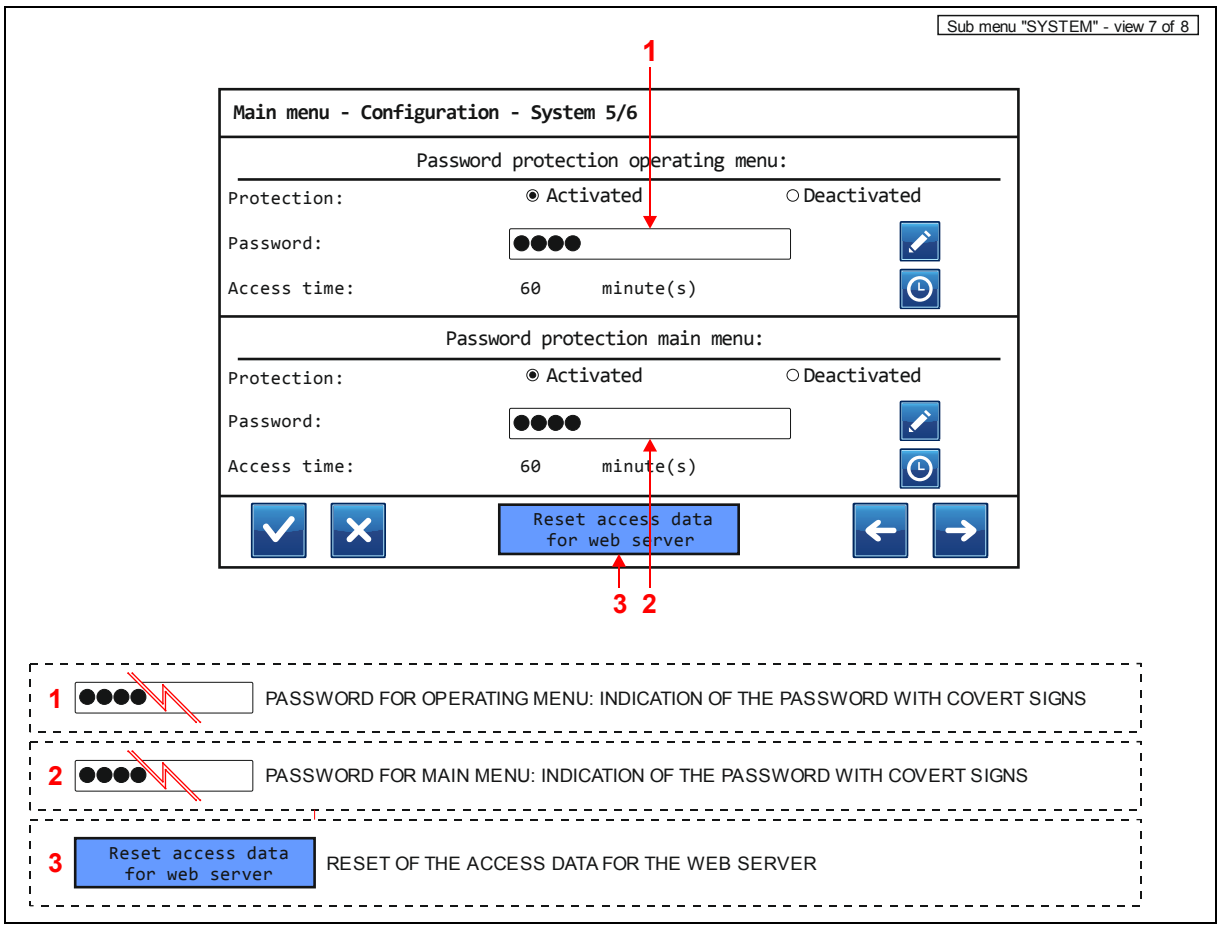
► "Password protection operating menu:" ► "Password:":
button field – input of the password (2 - 8 signs)

► "Password protection operating menu:" ► "Access time:":
button field – input of the access time up to the password query (1 - 60 minutes)

► "Password protection main menu:" ► "Protection:" ► "Activated" / "Deactivated":
button fields – activation / deactivation of the password protection

► "Password protection main menu:" ► "Password:":
button field – input of the password (2 - 8 signs)

► "Password protection main menu:" ► "Access time:":
button field – input of the access time up to the password query (1 - 60 minutes)



Note: **The password protection regarding the operating menu and the main menu is <u>not</u> related to the password query of the sub menu "SERVICE".**

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An actuation of the button field ➔ calls up the following view in the sub menu "SYSTEM 5/6".

View – 8 of 8:

"1": button field with multiple selection – selection of the brightness for the touchscreen, slider bar: move to the right for increase, move to the left for decrease

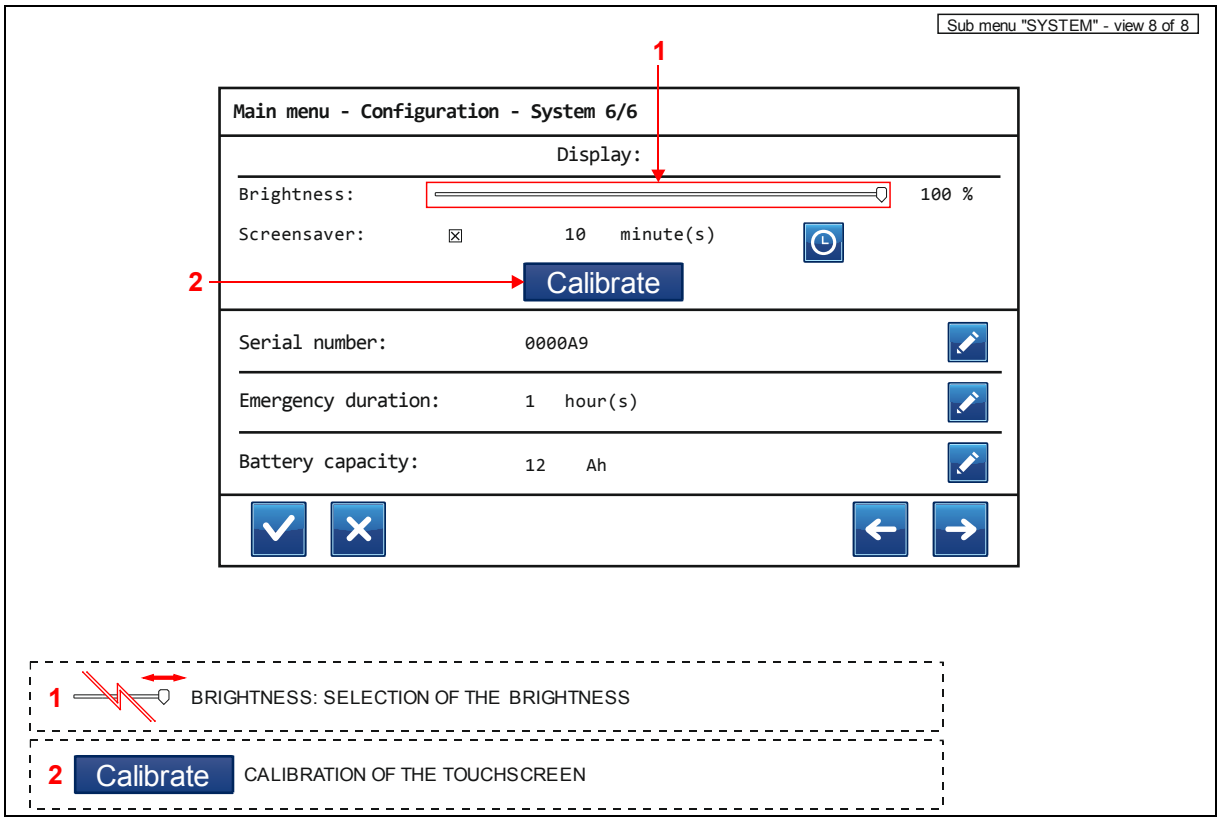
"2": button field – calibration of the touchscreen

► "Display:" ► "Screensaver:":
button fields – activation / deactivation of the screensaver, input of the duration up to the execution of the screensaver (1 - 20 minutes)

► "Serial number:":
button field – input of the serial number for the respective emergency light station (0 - 32 signs)

► "Emergency duration:":
button field – input of the emergency duration for the respective emergency light station (0 - 24 hours)

► "Battery capacity:":
button field – input of the battery capacity for the respective emergency light station
(0 - 99999 ampere hours)



Note: **The serial number and the emergency duration are designated on the type plate of the respective emergency light station. The battery capacity is only designated on the type plates of main stations. At sub stations the battery capacity of the respective main station must be entered.**

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1-1-3 "LSSA INPUTS"

In the sub menu "LSSA INPUTS" the query functions for the LSSA switch inputs (of query modules and the I/O card) as well as for the switch input "user definition" (I/O card) of the respective emergency light station are configured. These inputs are used for the selective switching resp. resetting of output circuits, groups and luminaire modules. Furthermore text designations for LSSA switch inputs, switch inputs, query modules and the I/O card can be entered free.

> All SICURO-24Z and SICURO-24G systems are equipped with four LSSA switch inputs, which are located on the I/O card.

> All SICURO systems are equipped with two switch inputs, which are located on the I/O card – "maintained mode on/off" and "user definition".

> A maximum of 96 query modules can be connected over the device bus (RS485) on the interface card (component of the EVA unit) of an emergency light station. For the selected module addresses from 1 to 95 query functions can be configured in the sub menu 1-1-3 "LSSA INPUTS". For the selected module address 96 command modes can be configured in the sub menu 1-1-4 "POTENTIAL-FREE CONTACTS".

> A maximum of one query function with one logic address can be assigned per LSSA switch input / switch input.

> A maximum of 772 logic addresses can be assigned per query function.

> Equal logic addresses can be assigned multiple on different LSSA switch inputs / switch inputs with the same query function.

> Equal logic addresses can be assigned multiple on different LSSA switch inputs / switch inputs with different query functions.

> The command initiation of all LSSA switch inputs (on the I/O card / on query modules) is software controlled and can be influenced by a programming.

Switching voltage resp. short circuit PRESENT and switch function "Negated" DEACTIVATED:
The command initiation of the selected query function is active (signal status: "On").

Switching voltage resp. short circuit NOT PRESENT and switch function "Negated" DEACTIVATED:
The command initiation of the selected query function is inactive (signal status: "Off").

Switching voltage resp. short circuit PRESENT and switch function "Negated" ACTIVATED:
The command initiation of the selected query function is inactive (signal status: "Off").

Switching voltage resp. short circuit NOT PRESENT and switch function "Negated" ACTIVATED:
The command initiation of the selected query function is active (signal status: "On").

> The command initiation for the switch input "maintained mode on/off" (on the I/O card) is software controlled and can not be influenced by a programming.

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> The command initiation for the switch input "user definition" (I/O card) is software controlled and can be influenced by a programming.

Short circuit PRESENT and switch function "Negated" DEACTIVATED:
The command initiation of the selected query function is active (signal status: "On").

Short circuit NOT PRESENT and switch function "Negated" DEACTIVATED:
The command initiation of the selected query function is inactive (signal status: "Off").

Short circuit PRESENT and switch function "Negated" ACTIVATED:
The command initiation of the selected query function is inactive (signal status: "Off").

Short circuit NOT PRESENT and switch function "Negated" ACTIVATED:
The command initiation of the selected query function is active (signal status: "On").

The following query functions can be assigned to the LSSA switch inputs / switch inputs:

"Light switch":	light switch position-query
"Sub-distribution":	sub-distribution monitoring
"Dynamic light":	switch position-query for dynamic control
"Stairway pushbutton":	light pushbutton position-query for stairways
"Manual reset":	pushbutton query for manual reset of operating modes for output circuits resp. luminaires modules
"Dynamic scene":	switch position-query for dynamic control
"No function":	no query function assigned

> The query function "Light switch" can only be selected at the operating mode "Switchable" for output circuits or groups.

> The query function "Sub-distribution" can only be selected at the operating mode "Switchable" for output circuits or groups.

> The query function "Dynamic light" can only be selected at the operating mode "Switchable" for output circuits or groups.

> The query function "Stairway pushbutton" can only be selected at the operating mode "Stairway pushbutton" for output circuits or groups.

> The query function "Manual reset" can only be selected at the operating mode "Switchable" for output circuits or groups.

> The query function "Dynamic scene" is intended as function extension for special applications and may not be used otherwise.

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View – 1 of 2:

"1-8": button fields with multiple selection – selection of the query function for the respective LSSA switch input,
3 grey areas: combined query function "Sub-distribution" selected

"9": button fields – input of the logic address (1 - 772) for the respective query function

"10": text fields – entered logic address of the respective query function

"11": button fields – free input of the input name (0 - 32 signs) for the respective LSSA switch input

"12": text fields – entered input name of the respective LSSA switch input

"13": text fields – signal status ("On" / "Off") on the respective LSSA switch input

"14": text field – availability of the selected query module

"15": text field – type of the selected query module

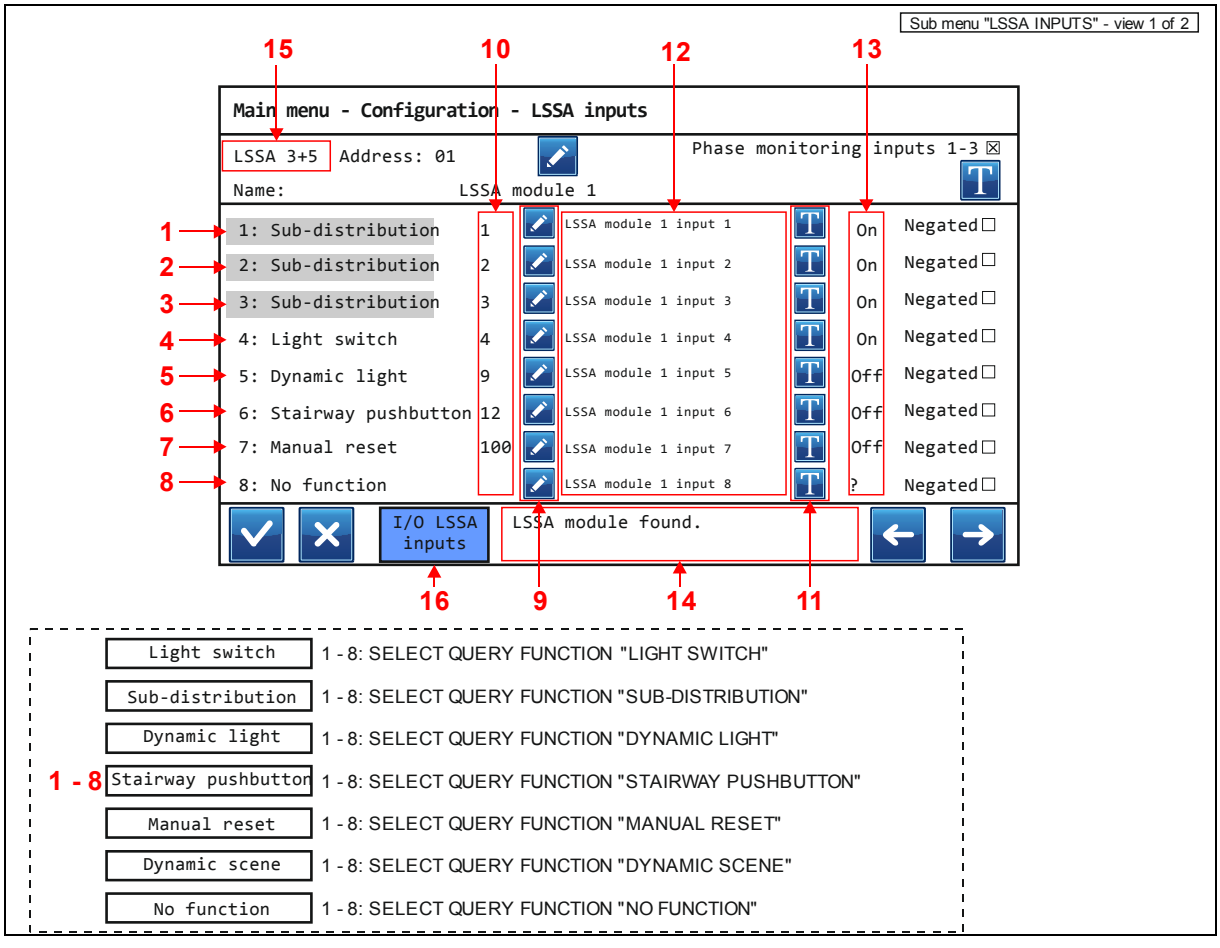
"16": button field – call-up of the view for the LSSA switch inputs and the switch input "user definition" (I/O card)

► "Address:":
button field – input of the module address (1 - 95) for selection of the query module

► "Name:":
button field – free input of the module name (0 - 32 signs)

► "Phase monitoring inputs 1 - 3":
button field – activation / deactivation of the combined query function "Sub-distribution" for the LSSA switch inputs 1 to 3 of query modules with integrated sub-distribution monitoring (3-phase)

► "Negated:":
button fields – activation / deactivation of the negated switch function for the respective LSSA switch input



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Note: **After a call-up of the sub menu "LSSA INPUTS":**
By an actuation of the button fields ←, → and ✎ the selection of a query module can be done, if query modules are present. An actuation of the button field "16" calls up the view for the LSSA switch inputs and the switch input "user definition" of the I/O card.

Attention: **The query function "Sub-distribution" may only be used, if the respective LSSA switch input of the query module is capable of an integrated sub-distribution monitoring. The integrated sub-distribution monitoring must be able to monitor the presence and the value of the mains voltage.**

The device function "Phase monitoring inputs 1 - 3" may only be used, if the LSSA switch inputs 1 to 3 of the query module are capable of an integrated sub-distribution monitoring. The integrated sub-distribution monitoring must be able to monitor the presence and the value of the mains voltage.

An actuation of the button field "16" calls up the following view in the sub menu "LSSA INPUTS".

View – 2 of 2:

"1-5": button fields with multiple selection – selection of the query function for the respective LSSA switch input / switch input

"6": button fields – input of the logic address (1 - 772) for the respective query function

"7": text fields – entered logic address of the respective query function

"8": button fields – free input of the input name (0 - 32 signs) for the respective LSSA switch input / switch input

"9": text fields – entered input name of the respective LSSA switch input / switch input

"10": text fields – signal status ("On" / "Off") on the LSSA switch input / switch input (I/O card)

"11": text field – availability of the I/O card

"12": button field – call-up of the view for the LSSA switch inputs of the query modules

► "Address:":
button field – input of the module address (1 - 95) for selection of the query module,
after input: call-up of the view for the LSSA switch inputs of the query modules

► "Name:":
button field – free input of the card name (0 - 32 signs)

► "Negated:":
button fields – activation / deactivation of the negated switch function for the respective LSSA switch input / switch input

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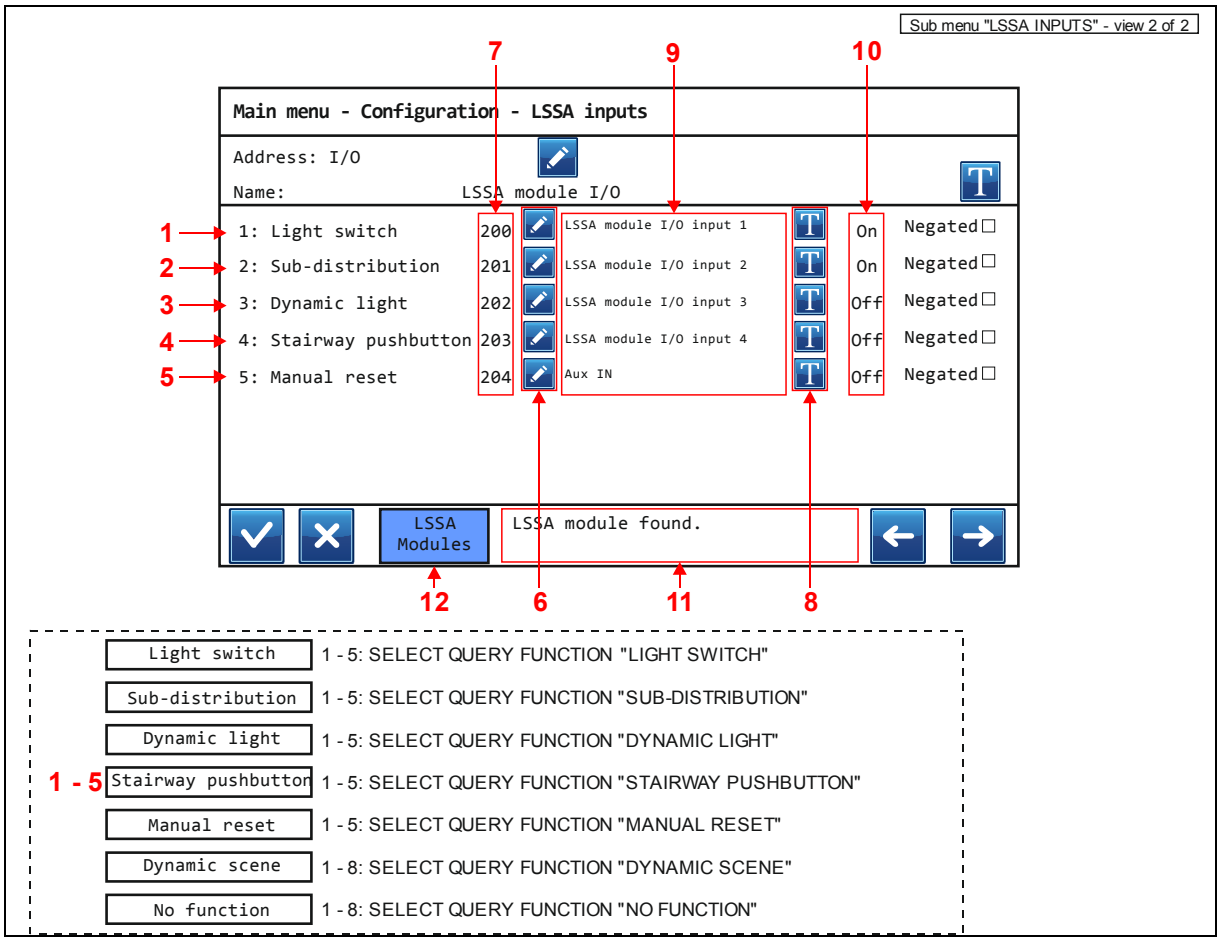

Note:

An actuation of the button field "12" calls up the view for the LSSA switch inputs of the query modules.

I/O cards of SICURO-230Z systems are not capable of LSSA switch inputs. The respective text and button fields are greyed out.

Attention:

The query function "Sub-distribution" may only be used, if a monitoring module (standardly DS3-UV), which is capable of a sub-distribution monitoring, is connected to the respective LSSA switch input / switch input of the emergency light station. The sub-distribution monitoring must be able to monitor the presence and the value of the mains voltage.

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1-1-4 "POTENTIAL-FREE CONTACTS"

In the sub menu "POTENTIAL-FREE CONTACTS" the switching conditions for the auxiliary contacts "auxiliary contact 1", "auxiliary contact 2" and "auxiliary contact 3" as well as the command modes for the switch input "user definition" (I/O card) of the respective emergency light station are configured. Furthermore the command modes for the LSSA switch inputs of the query module with the selected module address 96 of the respective emergency light station can be configured. The auxiliary contacts, the switch input and the LSSA switch inputs (module address 96) can be used for control and monitoring purposes.

> Fan control: The periodical time settings are only taking effect together with the selection of the periodical switching condition.

> Fan control: If equal values were entered for the period duration and the interval time the command initiation of the periodical switching condition is permanently active.

Conjunctions:

"OR": if one or several of the activated installation conditions are present, the respective auxiliary contact will be actuated by the operating system

"AND": if all activated installation conditions are present, the respective auxiliary contact will be actuated by the operating system

Fire disconnection:

The command mode "Activate/deactivate fire disconnection" activates/deactivates the operational condition of the respective emergency light station and is identically with the command mode "Activate/deactivate operational condition" regarding the device function (see button field "DEACTIVATE OPERATIONAL CONDITION").

View – 1 of 15:

"1": button field – call-up of the view with switching conditions regarding the fan control for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Mains failure":
button field – activation / deactivation of the switching condition during a mains failure by a general supply failure for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Critical circuit":
button field – activation / deactivation of the switching condition during a mains failure by a partial supply failure on the critical circuit for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "LSSA sub-distribution":
button field – activation / deactivation of the switching condition during a mains failure by a partial supply failure on an accordingly programmed LSSA input for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Battery operation":
button field – activation / deactivation of the switching condition during a battery operation for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Deep discharge":
button field – activation / deactivation of the switching condition during a deep discharge for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Operational condition deactivated":
button field – activation / deactivation of the switching condition during a deactivated operational condition for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Battery failure":
button field – activation / deactivation of the switching condition during a failure regarding the battery supply for the auxiliary contact "auxiliary contact 1" of the I/O card

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► "Aux Out 1:" ► "Charge failure":
button field – activation / deactivation of the switching condition during a failure regarding charger cards resp. charger modules for the auxiliary contact "auxiliary contact 1" of the I/O card

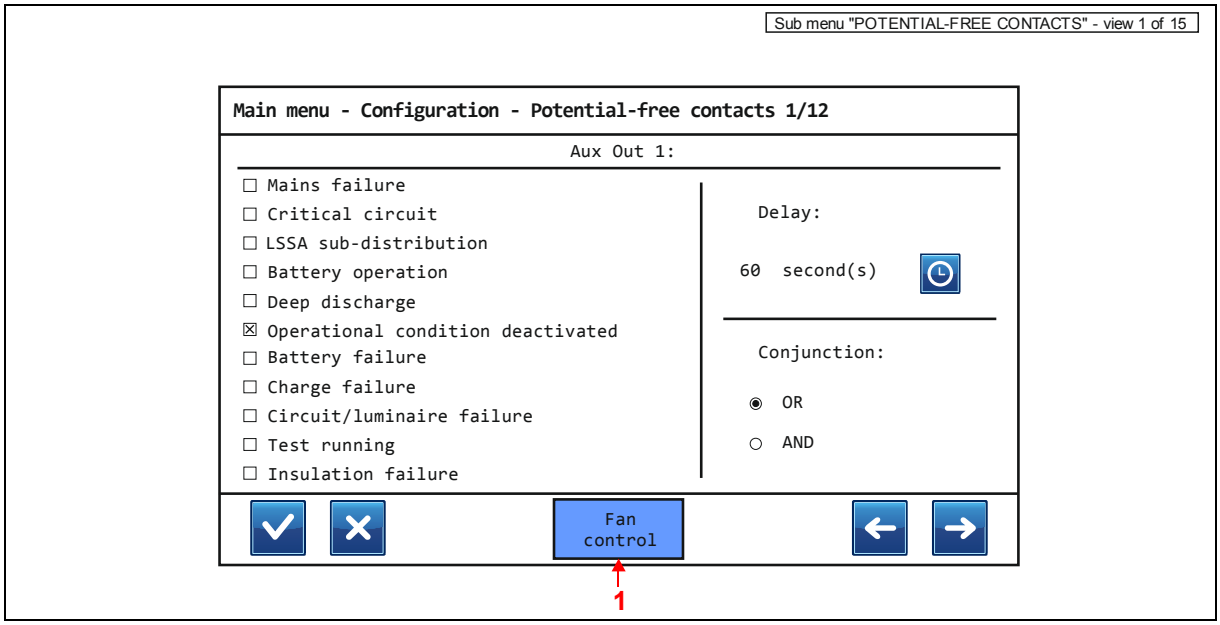
► "Aux Out 1:" ► "Circuit/luminaire failure":
button field – activation / deactivation of the switching condition during a failure regarding the output circuits resp. luminaire modules for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Test running":
button field – activation / deactivation of the switching condition during a test for the auxiliary contact "auxiliary contact 1" of the I/O card

SICURO-230Z: ► "Aux Out 1:" ► "Insulation failure":
button field – activation / deactivation of the switching condition during an insulation failure regarding the emergency light station resp. output circuits for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Delay:":
button field – input of the delay time for the auxiliary contact "auxiliary contact 1" of the I/O card
(0 - 60 seconds)

► "Aux Out 1:" ► "Conjunction:" ► "OR" / "AND":
button fields – activation of the common conjunction with the function "OR" / "AND" regarding the activated installation conditions for the auxiliary contact "auxiliary contact 1" of the I/O card



An actuation of the button field ➔ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 1/12".

View – 2 of 15:

"1": button field – call-up of the view with switching conditions regarding the fan control for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Mains failure":
button field – activation / deactivation of the switching condition during a mains failure by a general supply failure for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Critical circuit":
button field – activation / deactivation of the switching condition during a mains failure by a partial supply failure on the critical circuit for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "LSSA sub-distribution":
button field – activation / deactivation of the switching condition during a mains failure by a partial supply failure on an accordingly programmed LSSA input for the auxiliary contact "auxiliary contact 2" of the I/O card

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► "Aux Out 2:" ► "Battery operation":
button field – activation / deactivation of the switching condition during a battery operation for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Deep discharge":
button field – activation / deactivation of the switching condition during a deep discharge for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Operational condition deactivated":
button field – activation / deactivation of the switching condition during a deactivated operational condition for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Battery failure":
button field – activation / deactivation of the switching condition during a failure regarding the battery supply for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Charge failure":
button field – activation / deactivation of the switching condition during a failure regarding charger cards resp. charger modules for the auxiliary contact "auxiliary contact 2" of the I/O card

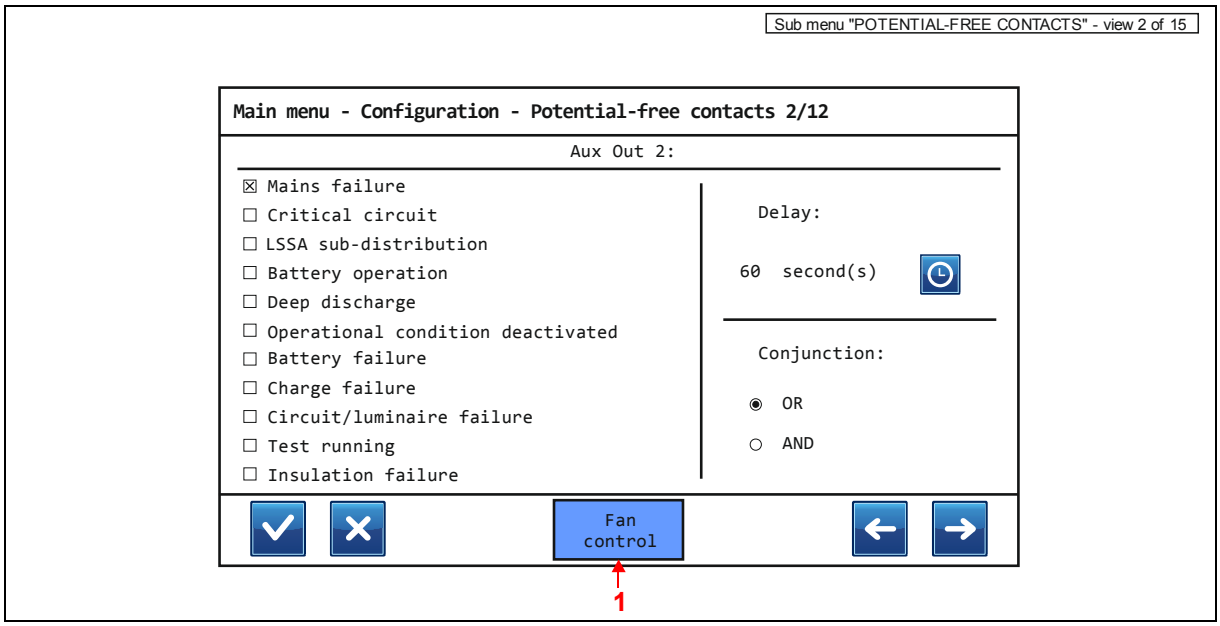
► "Aux Out 2:" ► "Circuit/luminaire failure":
button field – activation / deactivation of the switching condition during a failure regarding the output circuits resp. luminaire modules for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Test running":
button field – activation / deactivation of the switching condition during a test for the auxiliary contact "auxiliary contact 2" of the I/O card

SICURO-230Z: ► "Aux Out 2:" ► "Insulation failure":
button field – activation / deactivation of the switching condition during an insulation failure regarding the emergency light station resp. output circuits for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Delay:":
button field – input of the delay time for the auxiliary contact "auxiliary contact 2" of the I/O card
(0 - 60 seconds)

► "Aux Out 2:" ► "Conjunction:" ► "OR" / "AND":
button fields – activation of the common conjunction with the function "OR" / "AND" regarding the activated installation conditions for the auxiliary contact "auxiliary contact 2" of the I/O card



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An actuation of the button field ➔ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 2/12".

View – 3 of 15:

"1": button field – call-up of the view with switching conditions regarding the fan control for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Mains failure":
button field – activation / deactivation of the switching condition during a mains failure by a general supply failure for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Critical circuit":
button field – activation / deactivation of the switching condition during a mains failure by a partial supply failure on the critical circuit for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "LSSA sub-distribution":
button field – activation / deactivation of the switching condition during a mains failure by a partial supply failure on an accordingly programmed LSSA input for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Battery operation":
button field – activation / deactivation of the switching condition during a battery operation for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Deep discharge":
button field – activation / deactivation of the switching condition during a deep discharge for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Operational condition deactivated":
button field – activation / deactivation of the switching condition during a deactivated operational condition for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Battery failure":
button field – activation / deactivation of the switching condition during a failure regarding the battery supply for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Charge failure":
button field – activation / deactivation of the switching condition during a failure regarding charger cards resp. charger modules for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Circuit/luminaire failure":
button field – activation / deactivation of the switching condition during a failure regarding the output circuits resp. luminaire modules for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Test running":
button field – activation / deactivation of the switching condition during a test for the auxiliary contact "auxiliary contact 3" of the I/O card

SICURO-230Z: ► "Aux Out 3:" ► "Insulation failure":
button field – activation / deactivation of the switching condition during an insulation failure regarding the emergency light station resp. output circuits for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Delay:":
button field – input of the delay time for the auxiliary contact "auxiliary contact 3" of the I/O card
(0 - 60 seconds)

► "Aux Out 3:" ► "Conjunction:" ► "OR" / "AND":
button fields – activation of the common conjunction with the function "OR" / "AND" regarding the activated installation conditions for the auxiliary contact "auxiliary contact 3" of the I/O card

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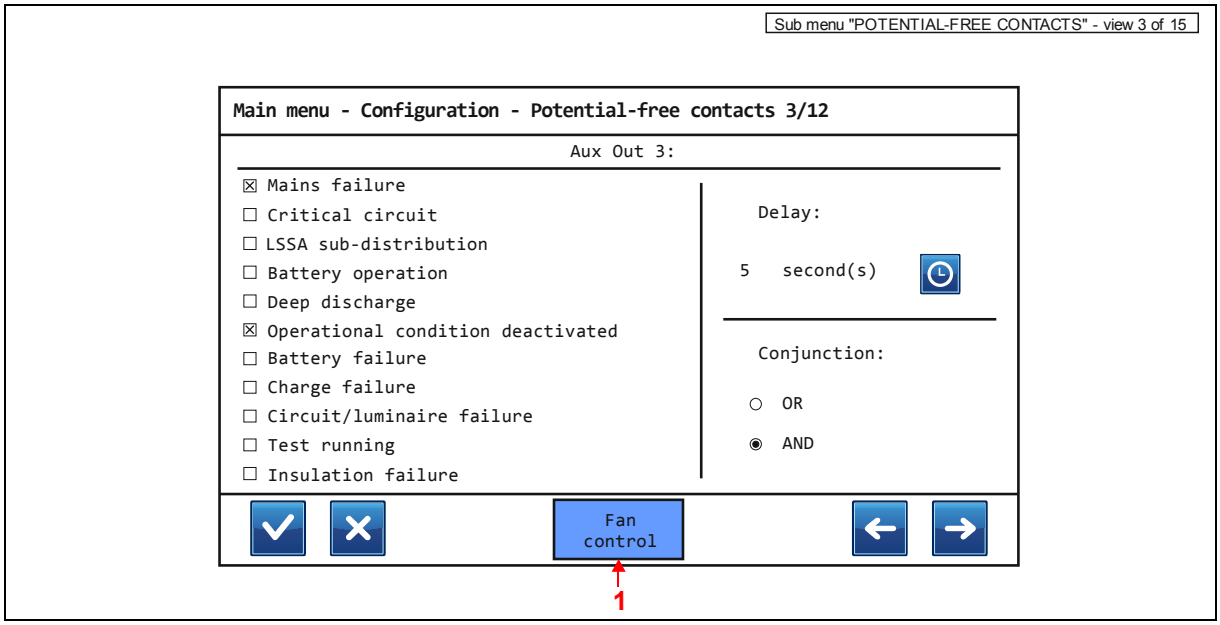

An actuation of the button field "1" regarding the view 1 of 15 calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 1/12".

View – 4 of 15:

"1": button field – call-up of the view with switching conditions regarding the standard control for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Fan switching conditions:" ► "Mains failure":
button field – activation / deactivation of the switching condition during a mains failure by a general supply failure for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Fan switching conditions:" ► "Battery operation":
button field – activation / deactivation of the switching condition during a battery operation for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Fan switching conditions:" ► "Boost charge":
button field – activation / deactivation of the switching condition during a boost charge for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Fan switching conditions:" ► "Periodically":
button field – activation / deactivation of the periodically switching condition for the auxiliary contact "auxiliary contact 1" of the I/O card

► "Aux Out 1:" ► "Periodically time settings:" ► "Every:":
button field – input of the period duration for the periodically switching condition (1 - 480 minutes)

► "Aux Out 1:" ► "Periodically time settings:" ► "For:":
button field – input of the interval time for the periodically switching condition (1 - 480 minutes)

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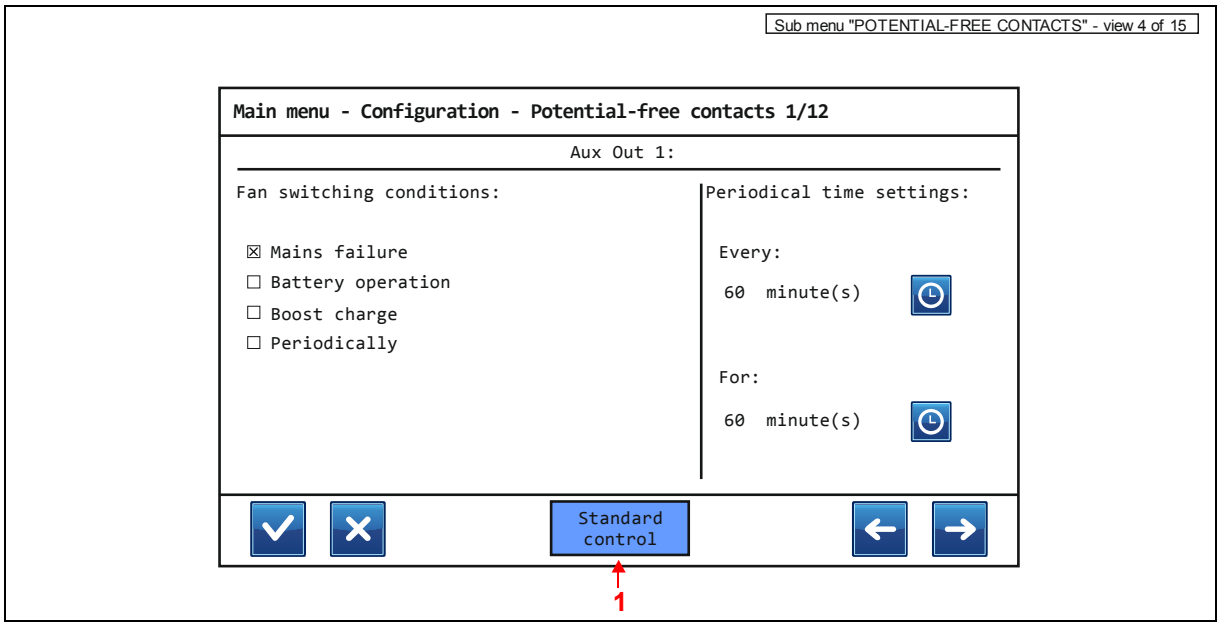

An actuation of the button field "1" regarding the view 2 of 15 calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 2/12".

View – 5 of 15:

"1": button field – call-up of the view with switching conditions regarding the standard control for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Fan switching conditions:" ► "Mains failure":
button field – activation / deactivation of the switching condition during a mains failure by a general supply failure for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Fan switching conditions:" ► "Battery operation":
button field – activation / deactivation of the switching condition during a battery operation for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Fan switching conditions:" ► "Boost charge":
button field – activation / deactivation of the switching condition during a boost charge for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Fan switching conditions:" ► "Periodically":
button field – activation / deactivation of the periodically switching condition for the auxiliary contact "auxiliary contact 2" of the I/O card

► "Aux Out 2:" ► "Periodically time settings:" ► "Every:":
button field – input of the period duration for the periodically switching condition (1 - 480 minutes)

► "Aux Out 2:" ► "Periodically time settings:" ► "For:":
button field – input of the interval time for the periodically switching condition (1 - 480 minutes)

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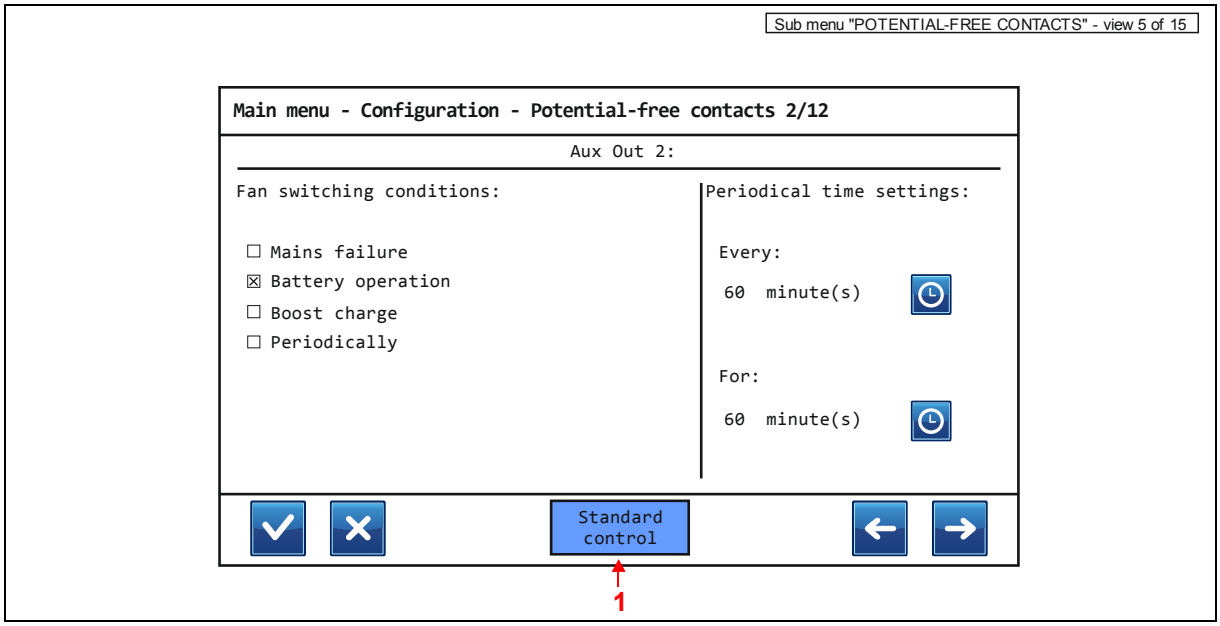

An actuation of the button field "1" regarding the view 3 of 15 calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 3/12".

View – 6 of 15:

"1": button field – call-up of the view with switching conditions regarding the standard control for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Fan switching conditions:" ► "Mains failure":
button field – activation / deactivation of the switching condition during a mains failure by a general supply failure for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Fan switching conditions:" ► "Battery operation":
button field – activation / deactivation of the switching condition during a battery operation for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Fan switching conditions:" ► "Boost charge":
button field – activation / deactivation of the switching condition during a boost charge for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Fan switching conditions:" ► "Periodically":
button field – activation / deactivation of the periodically switching condition for the auxiliary contact "auxiliary contact 3" of the I/O card

► "Aux Out 3:" ► "Periodically time settings:" ► "Every:":
button field – input of the period duration for the periodically switching condition (1 - 480 minutes)

► "Aux Out 3:" ► "Periodically time settings:" ► "For:":
button field – input of the interval time for the periodically switching condition (1 - 480 minutes)

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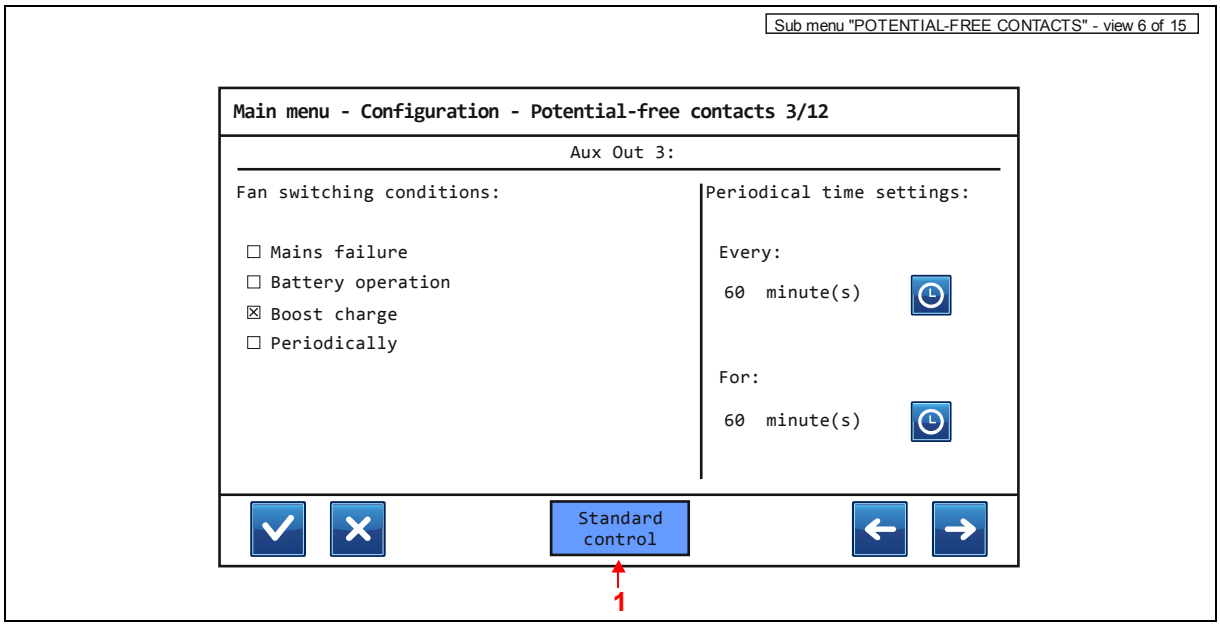

An actuation of the button field ➔ regarding the view 3 of 15 calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 3/12".

View – 7 of 15:

► "I/O Aux In:" ► "Start function test":
button field – selection of the command mode "Start function test" for the switch input "user definition" of the I/O card for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "I/O Aux In:" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the switch input "user definition" of the I/O card for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "I/O Aux In:" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the switch input "user definition" of the I/O card for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "I/O Aux In:" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the switch input "user definition" of the I/O card for activation / deactivation of the operational condition for the respective emergency light station

► "I/O Aux In:" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the switch input "user definition" of the I/O card for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "I/O Aux In:" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the switch input "user definition" of the I/O card for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "I/O Aux In:" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the switch input "user definition" of the I/O card for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "I/O Aux In:" ► "Use as LSSA switch input (24 V)":
button field – selection of the command mode "Use as LSSA switch input (24 V)" for the switch input "user definition" of the I/O card for use of the switch input as LSSA switch input with configuration over the sub menu 1-1-3 "LSSA INPUTS"

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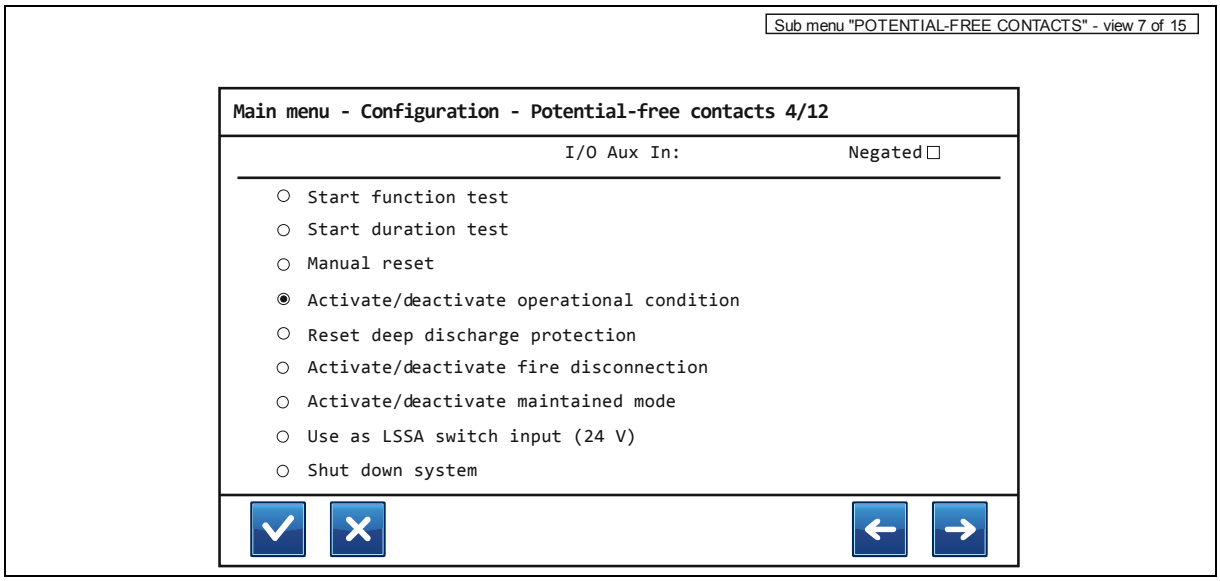
► "I/O Aux In:" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the switch input "user definition" of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "I/O Aux In:" ► "Negated":
button field – activation / deactivation of the negated switch function for the switch input "user definition" of the I/O card



An actuation of the button field ➔ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 4/12".

View – 8 of 15:

► "LSSA Aux In: 1" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 1 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 1" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 1 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 1" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 1 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "LSSA Aux In: 1" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 1 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

► "LSSA Aux In: 1" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 1 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 1" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 1 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 1" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 1 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

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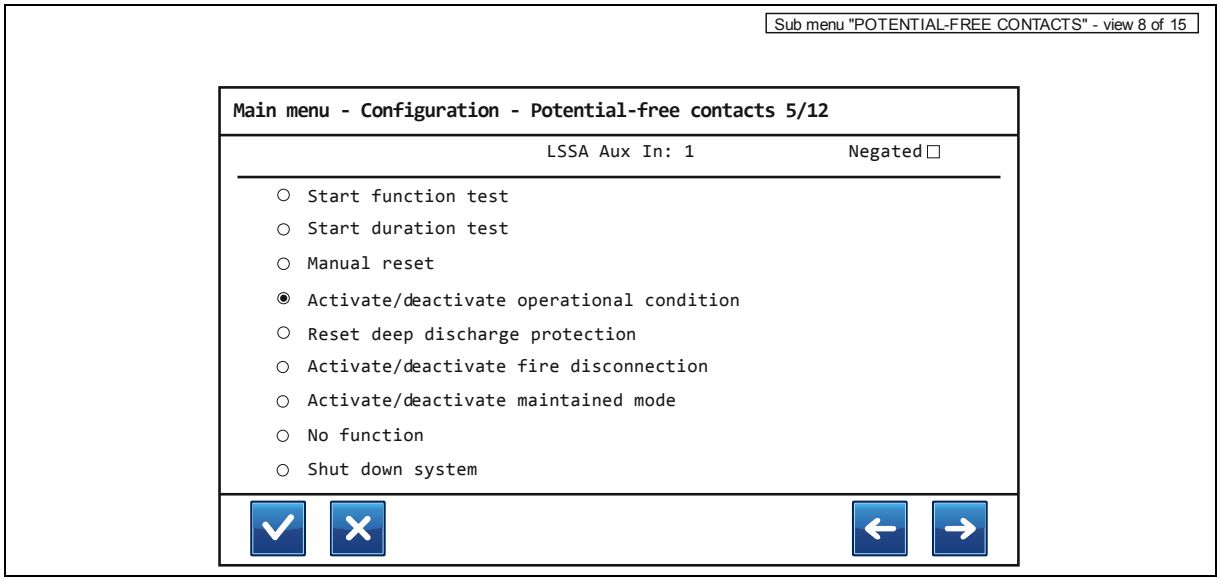
► "LSSA Aux In: 1" ► "No function":
button field – selection of no command mode for the LSSA switch input 1 of the query module with the selected module address 96

► "LSSA Aux In: 1" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 1 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 1" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 1 of the query module with the selected module address 96



An actuation of the button field ➔ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 5/12".

View – 9 of 15:

► "LSSA Aux In: 2" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 2 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 2" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 2 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 2" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 2 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "LSSA Aux In: 2" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 2 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

► "LSSA Aux In: 2" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 2 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 2" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 2 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

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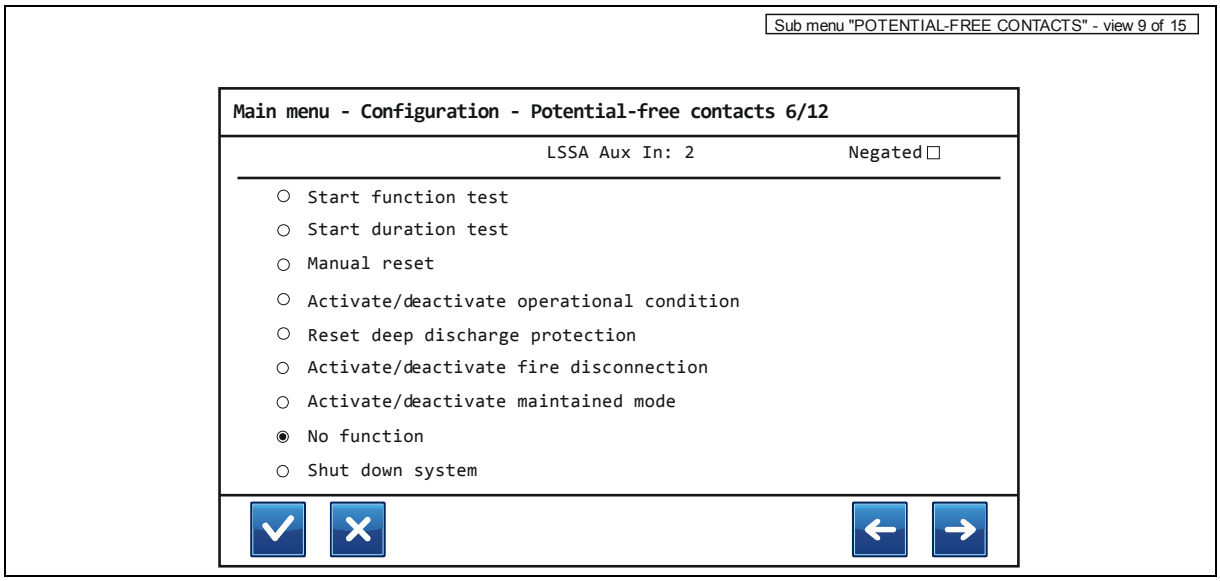
► "LSSA Aux In: 2" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 2 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 2" ► "No function":
button field – selection of no command mode for the LSSA switch input 2 of the query module with the selected module address 96

► "LSSA Aux In: 2" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 2 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 2" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 2 of the query module with the selected module address 96



An actuation of the button field ➡ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 6/12".

View – 10 of 15:

► "LSSA Aux In: 3" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 3 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 3" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 3 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 3" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 3 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "LSSA Aux In: 3" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 3 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

► "LSSA Aux In: 3" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 3 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

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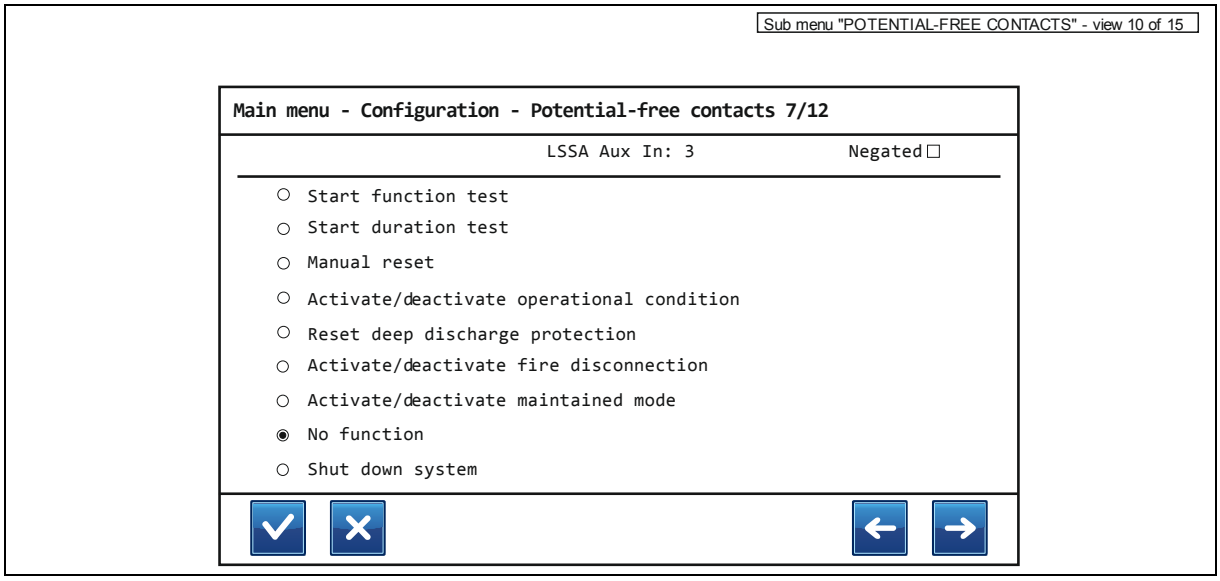
► "LSSA Aux In: 3" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 3 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 3" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 3 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 3" ► "No function":
button field – selection of no command mode for the LSSA switch input 3 of the query module with the selected module address 96

► "LSSA Aux In: 3" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 3 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 3" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 3 of the query module with the selected module address 96



An actuation of the button field ➔ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 7/12".

View – 11 of 15:

► "LSSA Aux In: 4" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 4 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 4" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 4 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 4" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 4 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "LSSA Aux In: 4" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 4 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

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► "LSSA Aux In: 4" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 4 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

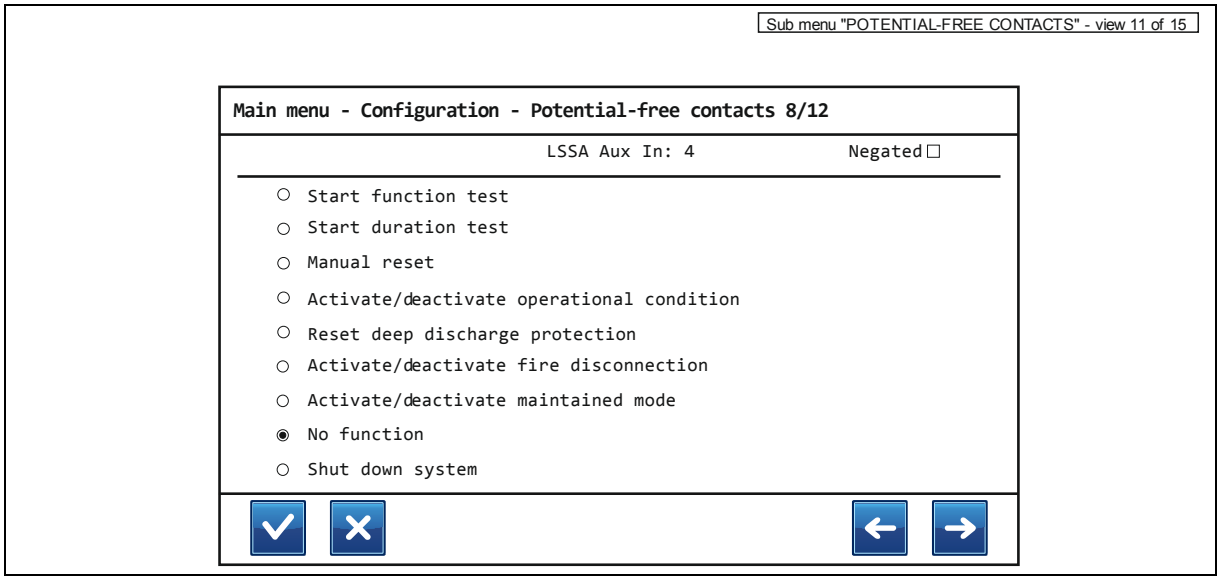
► "LSSA Aux In: 4" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 4 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 4" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 4 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 4" ► "No function":
button field – selection of no command mode for the LSSA switch input 4 of the query module with the selected module address 96

► "LSSA Aux In: 4" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 4 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 4" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 4 of the query module with the selected module address 96



An actuation of the button field ➔ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 8/12".

View – 12 of 15:

► "LSSA Aux In: 5" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 5 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 5" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 5 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 5" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 5 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

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► "LSSA Aux In: 5" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 5 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

► "LSSA Aux In: 5" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 5 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

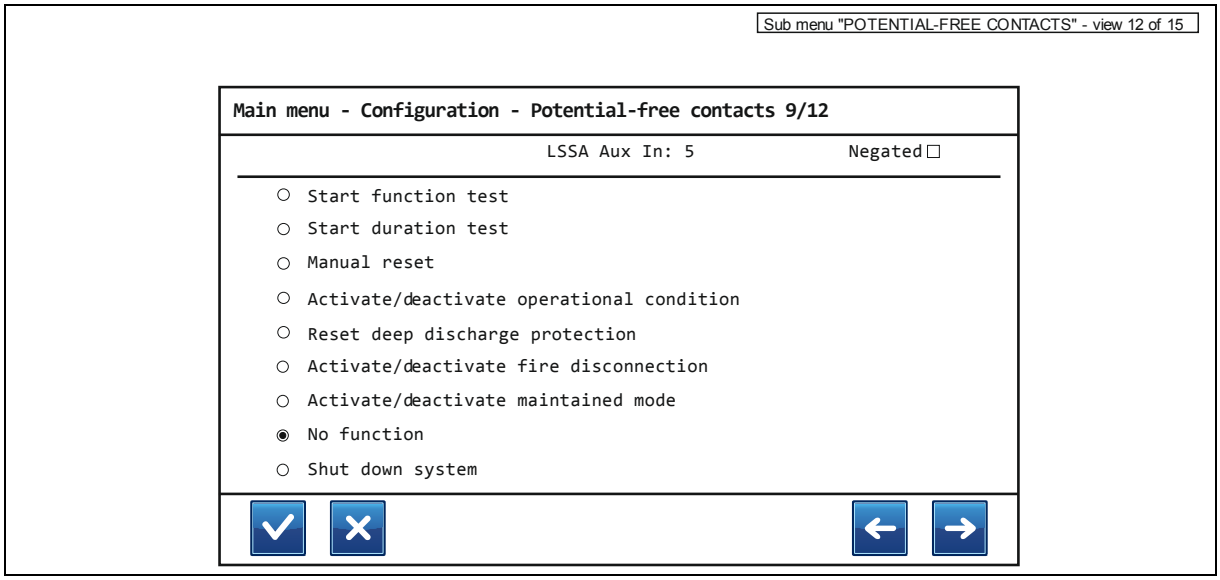
► "LSSA Aux In: 5" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 5 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 5" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 5 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 5" ► "No function":
button field – selection of no command mode for the LSSA switch input 5 of the query module with the selected module address 96

► "LSSA Aux In: 5" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 5 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 5" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 5 of the query module with the selected module address 96



An actuation of the button field ➡ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 9/12".

View – 13 of 15:

► "LSSA Aux In: 6" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 6 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 6" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 6 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

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► "LSSA Aux In: 6" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 6 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "LSSA Aux In: 6" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 6 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

► "LSSA Aux In: 6" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 6 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

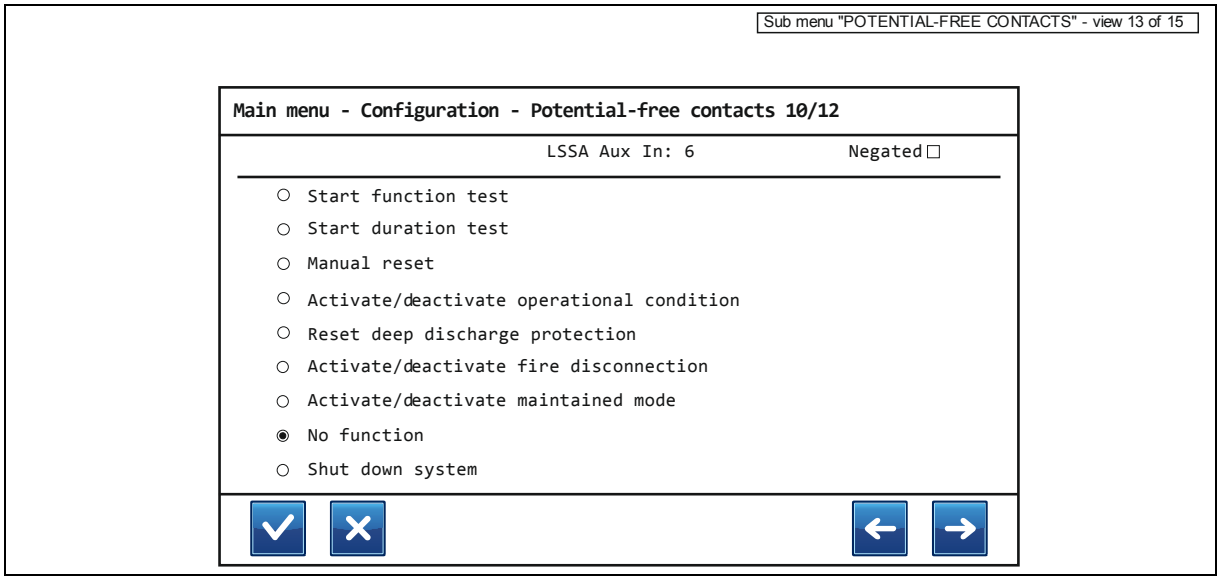
► "LSSA Aux In: 6" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 6 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 6" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 6 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 6" ► "No function":
button field – selection of no command mode for the LSSA switch input 6 of the query module with the selected module address 96

► "LSSA Aux In: 6" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 6 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 6" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 6 of the query module with the selected module address 96



An actuation of the button field ➡ calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 10/12".

View – 14 of 15:

► "LSSA Aux In: 7" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 7 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

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► "LSSA Aux In: 7" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 7 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 7" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 7 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "LSSA Aux In: 7" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 7 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

► "LSSA Aux In: 7" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 7 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

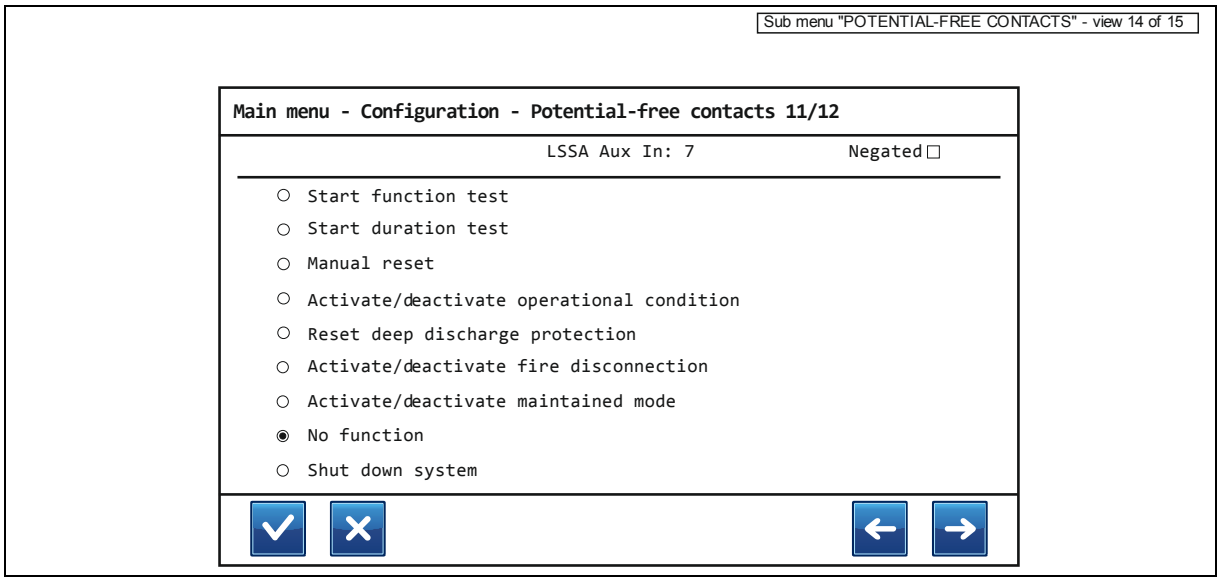
► "LSSA Aux In: 7" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 7 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 7" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 7 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 7" ► "No function":
button field – selection of no command mode for the LSSA switch input 7 of the query module with the selected module address 96

► "LSSA Aux In: 7" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 7 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 7" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 7 of the query module with the selected module address 96



An actuation of the button field calls up the following view in the sub menu "POTENTIAL-FREE CONTACTS 11/12".

View – 15 of 15:

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► "LSSA Aux In: 8" ► "Start function test":
button field – selection of the command mode "Start function test" for the LSSA switch input 8 of the query module with the selected module address 96 for execution of a function test on the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 8" ► "Start duration test":
button field – selection of the command mode "Start duration test" for the LSSA switch input 8 of the query module with the selected module address 96 for execution of a duration test on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

► "LSSA Aux In: 8" ► "Manual reset":
button field – selection of the command mode "Manual reset" for the LSSA switch input 8 of the query module with the selected module address 96 for execution of a reset of operating modes regarding all output circuits resp. luminaire modules on the respective emergency light station

► "LSSA Aux In: 8" ► "Activate/deactivate operational condition":
button field – selection of the command mode "Activate/deactivate operational condition" for the LSSA switch input 8 of the query module with the selected module address 96 for activation / deactivation of the operational condition for the respective emergency light station

► "LSSA Aux In: 8" ► "Reset deep discharge protection":
button field – selection of the command mode "Reset deep discharge protection" for the LSSA switch input 8 of the query module with the selected module address 96 for deactivation of the deep discharge protection on the respective main station together with all connected sub stations where appropriate, device function is only available on a main station

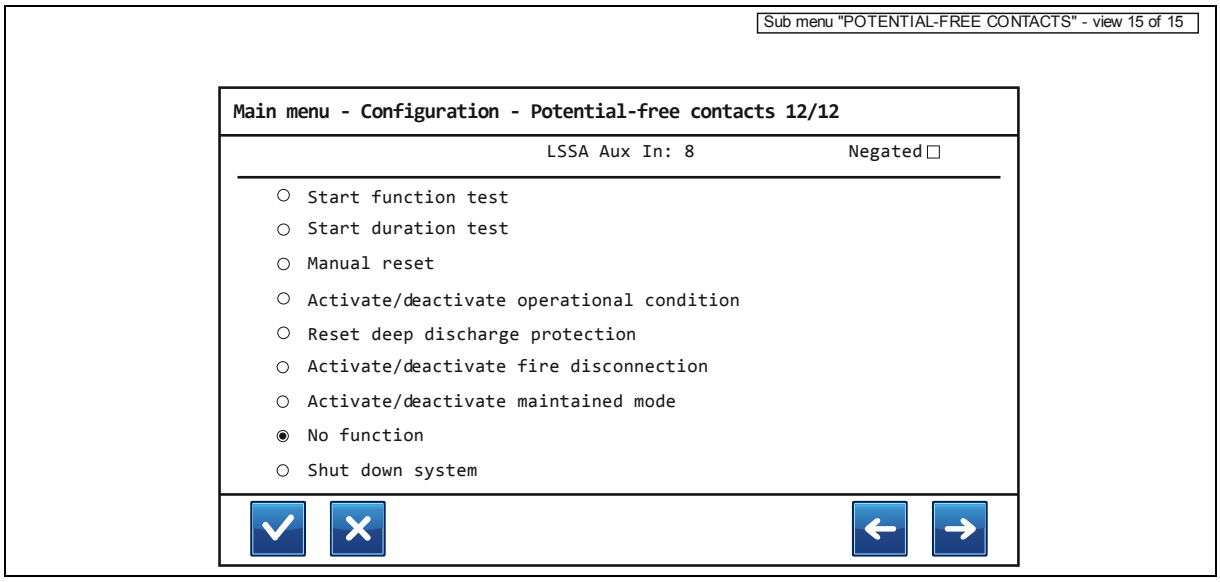
► "LSSA Aux In: 8" ► "Activate/deactivate fire disconnection":
button field – selection of the command mode "Activate/deactivate fire disconnection" for the LSSA switch input 8 of the query module with the selected module address 96 for activation / deactivation of the fire disconnection for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 8" ► "Activate/deactivate maintained mode":
button field – selection of the command mode "Activate/deactivate maintained mode" for the LSSA switch input 8 of the query module with the selected module address 96 for activation / deactivation of the maintained mode for the respective emergency light station together with all connected sub stations where appropriate

► "LSSA Aux In: 8" ► "No function":
button field – selection of no command mode for the LSSA switch input 8 of the query module with the selected module address 96

► "LSSA Aux In: 8" ► "Shut down system":
button field – selection of the command mode "Shut down system" for the LSSA switch input 8 of the I/O card for shutdown of the operating system of the respective emergency light station during an emergency operation with battery supply

► "LSSA Aux In: 8" ► "Negated":
button field – activation / deactivation of the negated switch function for the LSSA switch input 8 of the query module with the selected module address 96



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1-1-5 "DATE & TIME"

In the sub menu "DATE & TIME" the date and the time of the respective emergency light station are configured. These inputs are used for the execution of automatic function and duration tests as well as for the time function "Time switch", the test results and the daily events.

Note: **To prevent data inconsistency it is necessary to synchronise the date and the time on all emergency light stations of the installation.**

"1": button fields – selection of a month and a year

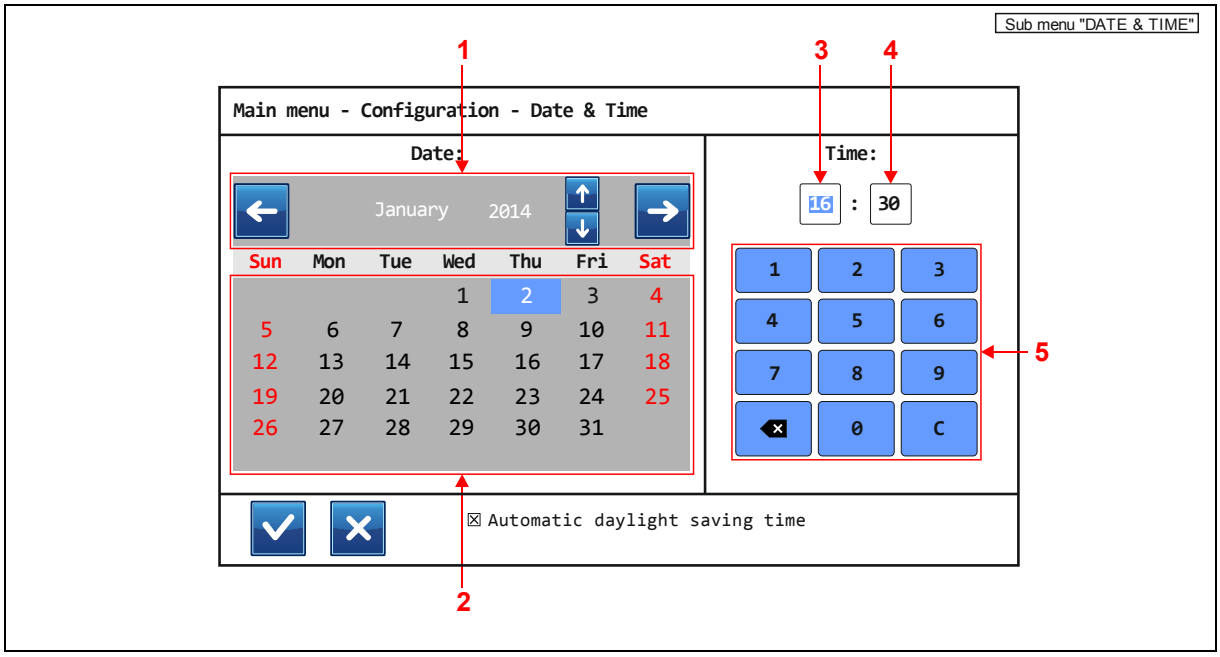
"2": button fields – selection of a day,
blue area: selected day

"3": button field – selection for hour,
blue area: hour selected

"4": button field – selection for minute,
blue area: minute selected

"5": button fields – input for hour / minute

► "Automatic daylight saving time":
button field – activation / deactivation of the device function for automatic shift of the daylight saving time



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1-1-6 "TIME SWITCH"

In the sub menu "TIME SWITCH" the time function "Time switch" for the operating mode "Time switch" of output circuits and the operating mode "Groups" of luminaire modules of the respective emergency light station is configured. These inputs are used for the selective switching of output circuits, groups and luminaire modules.

> The time function "Time switch" can be configured three times.

> The time function "Time switch" can only be selected at the operating mode "Time switch" for output circuits or groups.

> Five switch-on times can be configured per selected day.

> If no input was made for the switch-on time or the interval time the command initiation of the time function "Time switch" is inactive.

View – 1 of 4:

► "Time switch 1:" ► "Monday":
button field – activation / deactivation of the time function "Time switch 1" for the day Monday

► "Time switch 1:" ► "Tuesday":
button field – activation / deactivation of the time function "Time switch 1" for the day Tuesday

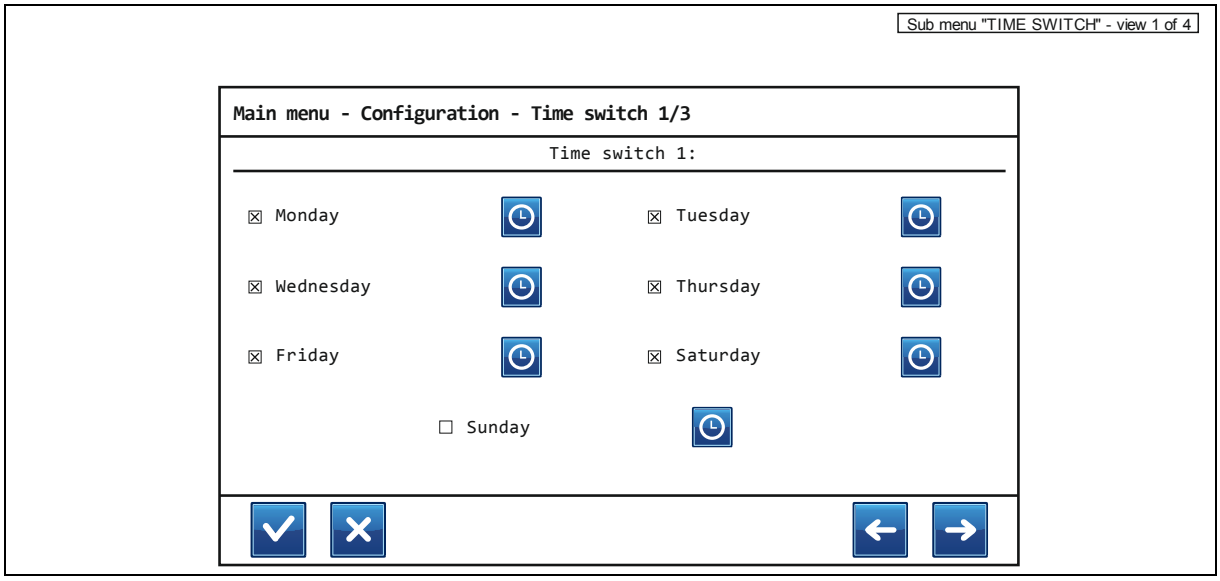
► "Time switch 1:" ► "Wednesday":
button field – activation / deactivation of the time function "Time switch 1" for the day Wednesday

► "Time switch 1:" ► "Thursday":
button field – activation / deactivation of the time function "Time switch 1" for the day Thursday

► "Time switch 1:" ► "Friday":
button field – activation / deactivation of the time function "Time switch 1" for the day Friday

► "Time switch 1:" ► "Saturday":
button field – activation / deactivation of the time function "Time switch 1" for the day Saturday

► "Time switch 1:" ► "Sunday":
button field – activation / deactivation of the time function "Time switch 1" for the day Sunday



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An actuation of the button field ➡ calls up the following view in the sub menu "TIME SWITCH 1/3".

View – 2 of 4:

► "Time switch 2:" ► "Monday":
button field – activation / deactivation of the time function "Time switch 2" for the day Monday

► "Time switch 2:" ► "Tuesday":
button field – activation / deactivation of the time function "Time switch 2" for the day Tuesday

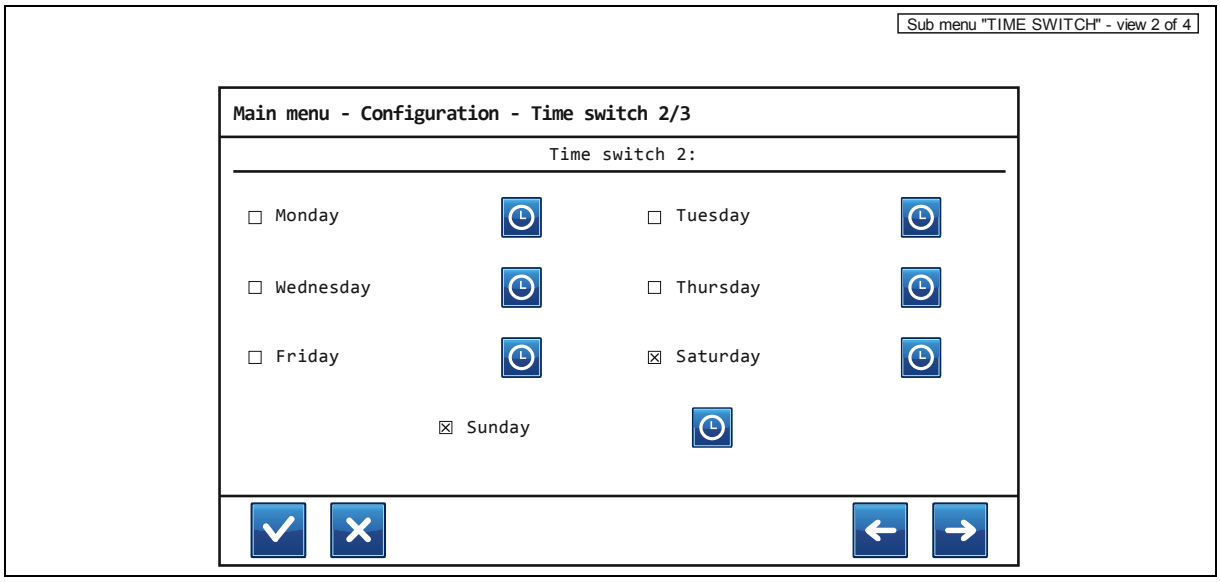
► "Time switch 2:" ► "Wednesday":
button field – activation / deactivation of the time function "Time switch 2" for the day Wednesday

► "Time switch 2:" ► "Thursday":
button field – activation / deactivation of the time function "Time switch 2" for the day Thursday

► "Time switch 2:" ► "Friday":
button field – activation / deactivation of the time function "Time switch 2" for the day Friday

► "Time switch 2:" ► "Saturday":
button field – activation / deactivation of the time function "Time switch 2" for the day Saturday

► "Time switch 2:" ► "Sunday":
button field – activation / deactivation of the time function "Time switch 2" for the day Sunday



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An actuation of the button field ➔ calls up the following view in the sub menu "TIME SWITCH 2/3".

View – 3 of 4:

► "Time switch 3:" ► "Monday":
button field – activation / deactivation of the time function "Time switch 3" for the day Monday

► "Time switch 3:" ► "Tuesday":
button field – activation / deactivation of the time function "Time switch 3" for the day Tuesday

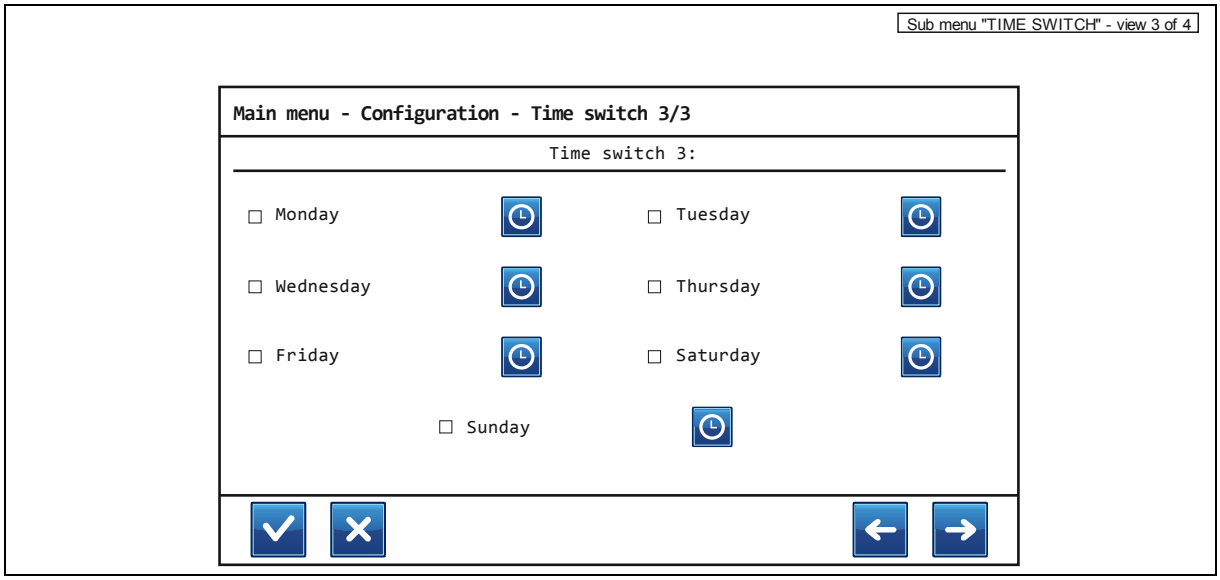
► "Time switch 3:" ► "Wednesday":
button field – activation / deactivation of the time function "Time switch 3" for the day Wednesday

► "Time switch 3:" ► "Thursday":
button field – activation / deactivation of the time function "Time switch 3" for the day Thursday

► "Time switch 3:" ► "Friday":
button field – activation / deactivation of the time function "Time switch 3" for the day Friday

► "Time switch 3:" ► "Saturday":
button field – activation / deactivation of the time function "Time switch 3" for the day Saturday

► "Time switch 3:" ► "Sunday":
button field – activation / deactivation of the time function "Time switch 3" for the day Sunday



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An actuation of the button fields calls up the following view in the sub menu "TIME SWITCH 1/3".

View – 4 of 4:

► "Time switch … - …:" ► "Switch-on time 1:":
button field – input of the switch-on time 1 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 2:":
button field – input of the switch-on time 2 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 3:":
button field – input of the switch-on time 3 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 4:":
button field – input of the switch-on time 4 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 5:":
button field – input of the switch-on time 5 for the selected time function of the selected day (00:00 – 23:59)

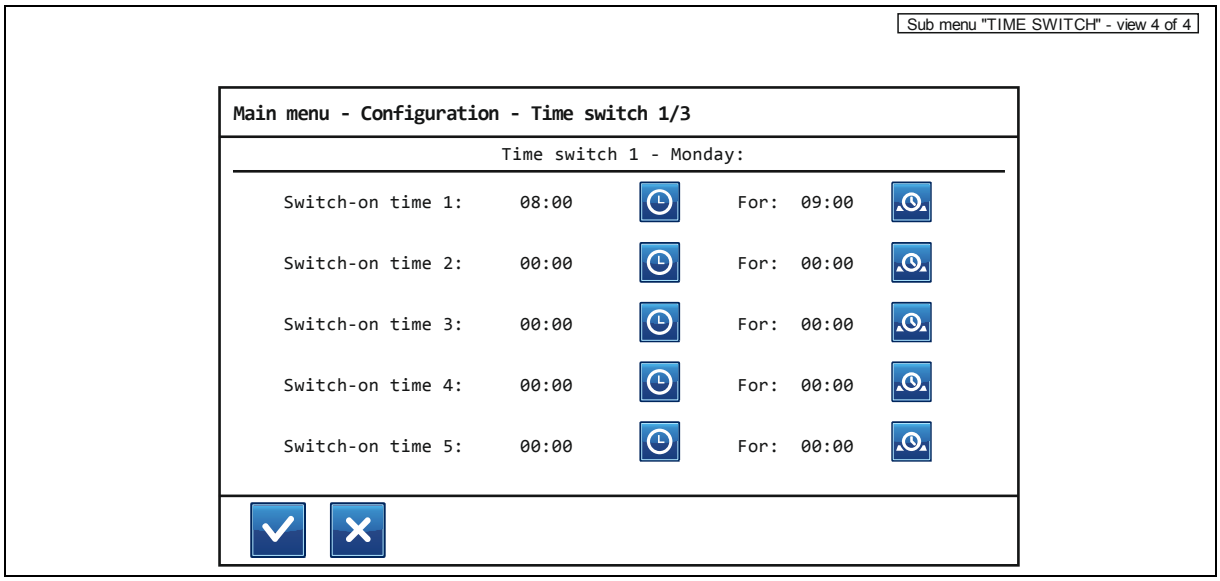
► "Time switch … - …:" ► "Switch-on time 1:" ► "For:":
button field – input of the interval time 1 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 2:" ► "For:":
button field – input of the interval time 2 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 3:" ► "For:":
button field – input of the interval time 3 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 4:" ► "For:":
button field – input of the interval time 4 for the selected time function of the selected day (00:00 – 23:59)

► "Time switch … - …:" ► "Switch-on time 5:" ► "For:":
button field – input of the interval time 5 for the selected time function of the selected day (00:00 – 23:59)



Note: **The command initiation of a single switch-on time with interval time becomes automatically inactive after 23:59. To maintain a command initiation active over the end of a day it is necessary to configure two switch-on times with two interval times.**

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1-1-7 "SOFTWARE"

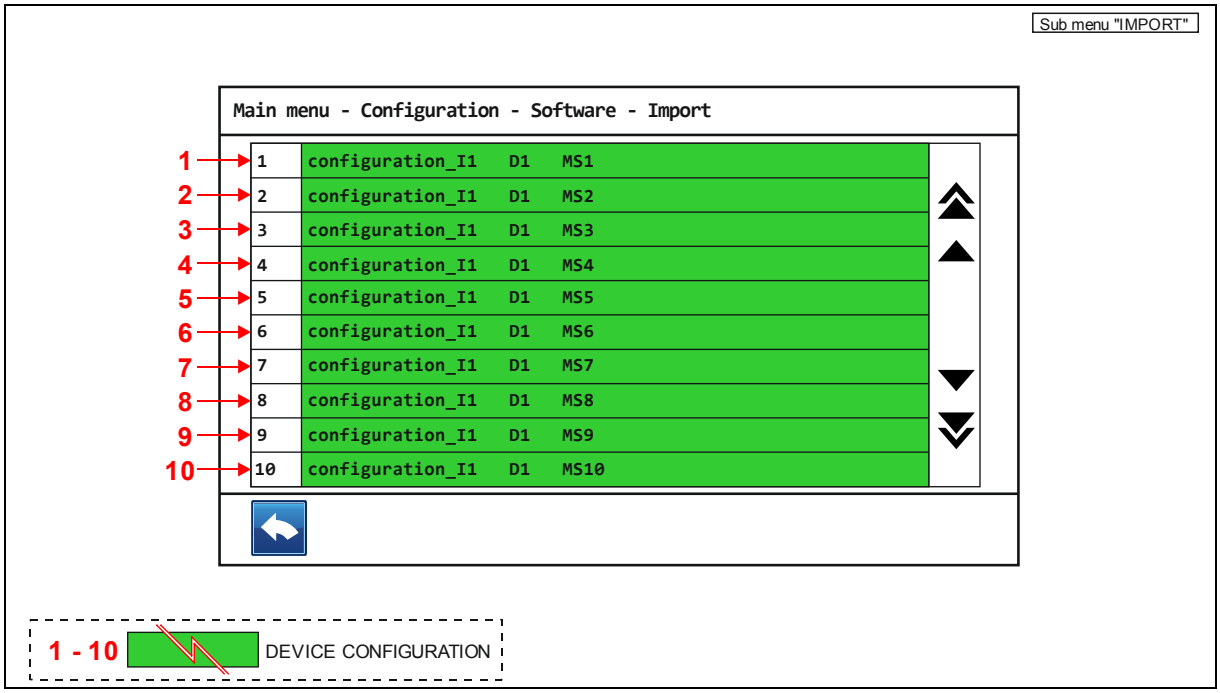
The sub menu consists of the following sub menus:

- 1-1-7-1 "IMPORT"
- 1-1-7-2 "EXPORT"
- 1-1-7-3 "UPDATE"
- 1-1-7-4 "FACTORY RESET"
- 1-1-7-5 "SETTINGS"
- 1-1-7-6 "LOAD BACKUP"
- 1-1-7-7 "SAVE BACKUP"

1-1-7-1 "IMPORT"

In the sub menu "IMPORT" previously exported device configurations are managed manually. Exported device configurations can only be saved on USB sticks. All indicated device configurations can be imported.

"1-10": button fields – actuation of the green area: import of a device configuration



An actuation of the green area regarding the button field of a device configuration executes the manual import of a device configuration. At this procedure the operating system imports a previously exported device configuration on the respective emergency light station. For the import function commercial USB sticks can be used which must be inserted in the respective USB port on the EVA unit. USB sticks must be formatted in the file format FAT32.

> The previously exported device configuration must have the file name "start_file".

> The previously exported device configuration can include further files with various file names. These files belong to the file "start_file".

> The previously exported device configuration must be saved in the directory ":\export\configuration_XXX\". Instead of "XXX" the directory must include the device name of the respective emergency light station.

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Note: **The import and export of the device configuration are suitable for a change of the EVA unit resp. the CPU card of an emergency light station.**

Attention: **All folders and files of the device configuration may not be renamed, moved or deleted. Except of the folders and files of the device configuration no further folders and files may be saved on the USB stick.**

1-1-7-2 "EXPORT"

An actuation of the button field "EXPORT" executes a manual export of the device configuration. At this procedure the operating system exports the current device configuration of the respective emergency light station. For the export function commercial USB sticks can be used which must be inserted in the respective USB port on the EVA unit. USB sticks must be formatted in the file format FAT32.

> The exported device configuration has the file name "start_file".

> The exported device configuration can include further files with various file names. These files belong to the file "start_file".

> The exported device configuration is saved in the directory ":\export\configuration_XXX\". Instead of "XXX" the directory includes the device name of the respective emergency light station.

> Only one device configuration can be exported per emergency light station (device name is part of the directory). A repeated Exporting of the device configuration regarding the same emergency light station overwrites the already present device configuration.

Note: **The export and import of the device configuration are suitable for a change of the EVA unit resp. the CPU card of an emergency light station.**

Attention: **All folders and files of the device configuration may not be renamed, moved or deleted. Except of the folders and files of the device configuration no further folders and files may be saved on the USB stick.**

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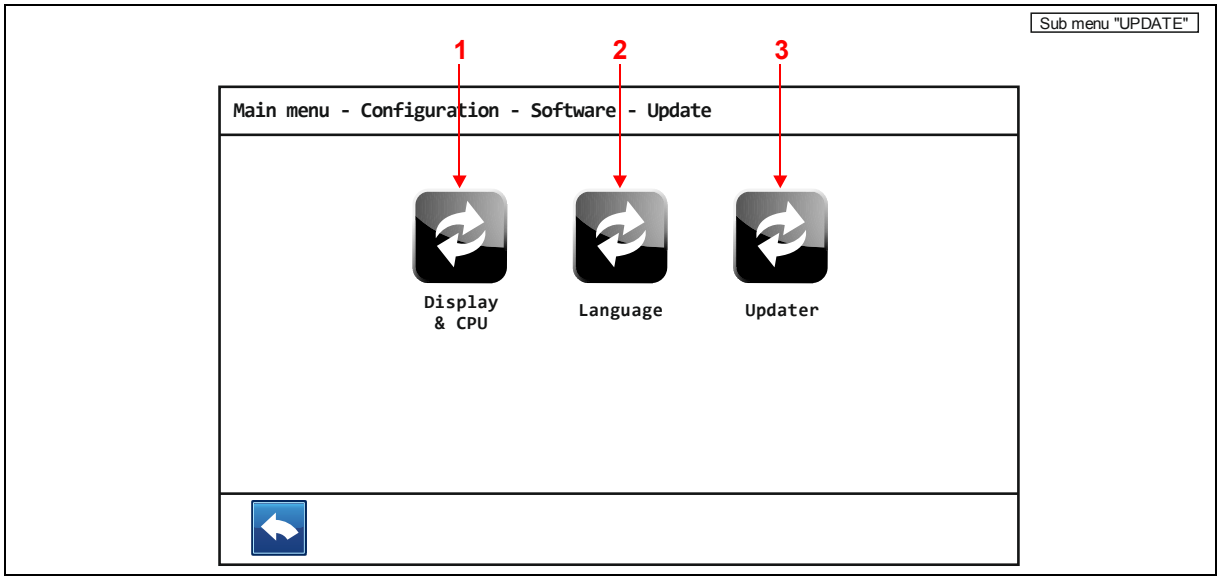
1-1-7-3 "UPDATE"

In the sub menu "UDATE" updates for hardware and software of the respective emergency light station can be executed manually.

"1": button field – execution of the device function for updates regarding the operating system

"2": button field – execution of the device function for updates regarding the system language

"3": button field – execution of the device function for updates regarding the system updater



An actuation of the button field "1" executes a manual update of the operating system in the sub menu "UPDATE". At this procedure the operating system applies a previously prepared update on the display card resp. CPU card of the respective emergency light station. For the update function commercial USB sticks can be used which must be inserted in the respective USB port on the EVA unit. USB sticks must be formatted in the file format FAT32.

> The previously prepared update for the CPU card (component of the EVA unit) of SICURO-230Z systems must have the file name "230_porting".

  The previously prepared update for the CPU card (component of the EVA unit) of SICURO-24Z and SICURO-24G systems must have the file name "porting".

> The previously prepared update for the display card (component of the EVA unit) of SICURO-230Z systems must have the file name "230_interfaccia".

  The previously prepared update for the display card (component of the EVA unit) of SICURO-24Z and SICURO-24G systems must have the file name "interfaccia".

> Previously prepared updates include an additional file with the file name "update.mi". This file belongs to the files "230_porting" resp. "porting" and "230_interfaccia" resp. "interfaccia".

> Extended update:
  Previously prepared (extended) updates can include further files. These files belong to the files "230_porting" resp. "porting" and "230_interfaccia" resp. "interfaccia" and enable an update of further equipment resp. software components.

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> The files "230_porting" resp. "porting" and "230_interfaccia" resp. "interfaccia" of the previously prepared update as well as all files regarding an extended update must be saved in the directory ":\updatesw\".

> The file "update.mi" of the previously prepared update must be saved in the directory ":\".

Note: **Prior to the execution of this device function we recommend to export the device configuration of the emergency light station on a USB stick (see sub menu 1-1-7-2). The current software version of the emergency light station is indicated in the sub menu "INFORMATION" (see sub menu 1-11).**

Attention: **All folders and files of the update may not be renamed, moved or deleted. Except of the folders and files of the update no further folders and files may be saved on the USB stick.**

An actuation of the button field "2" executes a manual update of system languages in the sub menu "UPDATE". At this procedure the operating system applies a previously prepared update on the CPU card of the respective emergency light station. For the update function commercial USB sticks can be used which must be inserted in the respective USB port on the EVA unit. USB sticks must be formatted in the file format FAT32.

> The previously prepared update for the system language of SICURO-230Z systems must have the file name "translate230_XXX". Instead of "XXX" the file name must include the respective language abbreviation.

  The previously prepared update for the system language of SICURO-24Z and SICURO-24G systems must have the file name "translate_XXX". Instead of "XXX" the file name must include the respective language abbreviation.

> Previously prepared updates include an additional file with the file name "update.mi". This file belongs to the file "translate230_XXX" resp. "translate_XXX".

> The file "translate230_XXX" resp. "translate_XXX" of the previously prepared update must be saved in the directory ":\updatesw\".

> The file "update.mi" of the previously prepared update must be saved in the directory ":\".

Note: **Prior to the execution of this device function we recommend to export the device configuration of the emergency light station on a USB stick (see sub menu 1-1-7-2). The current software version of the emergency light station is indicated in the sub menu "INFORMATION" (see sub menu 1-11).**

After the execution of this device function the desired system language must be selected again in the sub menu "SETTINGS" (see sub menu 1-1-7-5).

Attention: **All folders and files of the update may not be renamed, moved or deleted. Except of the folders and files of the update no further folders and files may be saved on the USB stick.**

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An actuation of the button field "3" executes a manual update of the system updater (software component of the operating system) in the sub menu "UPDATE". At this procedure the operating system applies a previously prepared update on the CPU card of the respective emergency light station. For the update function commercial USB sticks can be used which must be inserted in the respective USB port on the EVA unit. USB sticks must be formatted in the file format FAT32.

> The previously prepared update for the system updater (software component of the operating system) must have the file name "update_prazisa".

> Previously prepared updates include an additional file with the file name "update.mi". This file belongs to the file "update_prazisa".

> The file "update_prazisa" of the previously prepared update must be saved in the directory ":\updatesw\".

> The file "update.mi" of the previously prepared update must be saved in the directory ":\".

Note: **Prior to the execution of this device function we recommend to export the device configuration of the emergency light station on a USB stick (see sub menu 1-1-7-2). The current software version of the emergency light station is indicated in the sub menu "INFORMATION" (see sub menu 1-11).**

Attention: **All folders and files of the update may not be renamed, moved or deleted. Except of the folders and files of the update no further folders and files may be saved on the USB stick.**

1-1-7-4 "FACTORY RESET"

An actuation of the button field "FACTORY RESET" executes a manual reset of the device configuration. At this procedure the operating system resets the current device configuration of the respective emergency light station to the factory settings.

Note: **Prior to the execution of this device function we recommend to export the device configuration of the emergency light station on a USB stick (see sub menu 1-1-7-2).**

Attention: **This procedure can not be reversed.**

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1-1-7-5 "SETTINGS"

In the sub menu "SETTINGS" the language, automatic backups and the device type of the emergency light station are configured.

View – 1 of 3:

"1": button field – execution of the operating system in language: Italian

"2": button field – execution of the operating system in language: German

"3": button field – execution of the operating system in language: English

"4": button field – execution of the operating system in language: Dutch

"5": button field – execution of the operating system in language: Slovenian

"6": button field – execution of the operating system in language: Hebrew

"7": button field – execution of the operating system in language: Croatian

"8": button field – execution of the operating system in language: French

"9": button field – execution of the operating system in language: Polish

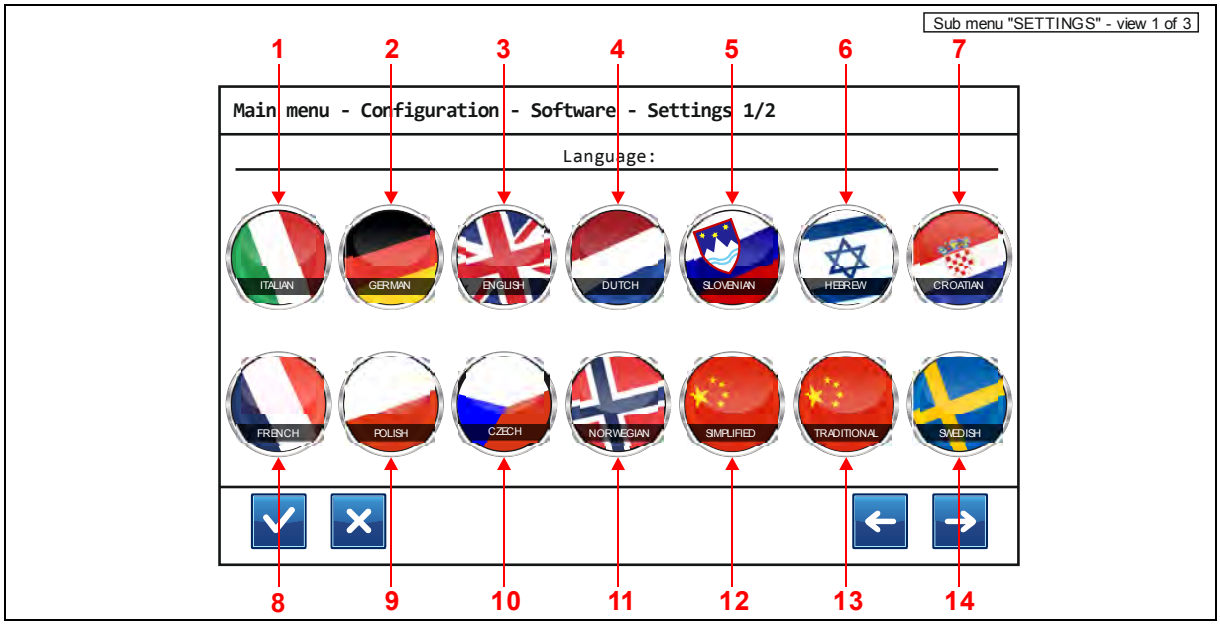
"10": button field – execution of the operating system in language: Czech

"11": button field – execution of the operating system in language: Norwegian

"12": button field – execution of the operating system in language: simplified Chinese

"13": button field – execution of the operating system in language: traditional Chinese

"14": button field – execution of the operating system in language: Swedish



An actuation of the button fields "1" to "14" executes the operating system in the respective language.

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SICURO-230Z:

An actuation of the button field ➡ calls up the following view in the sub menu "SETTINGS 1/2".

View – 2 of 3:

"1": button field – execution of the operating system for device type:
SICURO-230Z as main station with mains supply by three phases

"2": button field – execution of the operating system for device type:
SICURO-230Z as main station with mains supply by one phase

"3": button field – execution of the operating system for device type:
SICURO-230Z as sub station with mains supply by three phases

"4": button field – execution of the operating system for device type:
SICURO-230Z as sub station with mains supply by one phase

"5": button field – execution of the operating system for device type:
SICURO-24Z as sub station

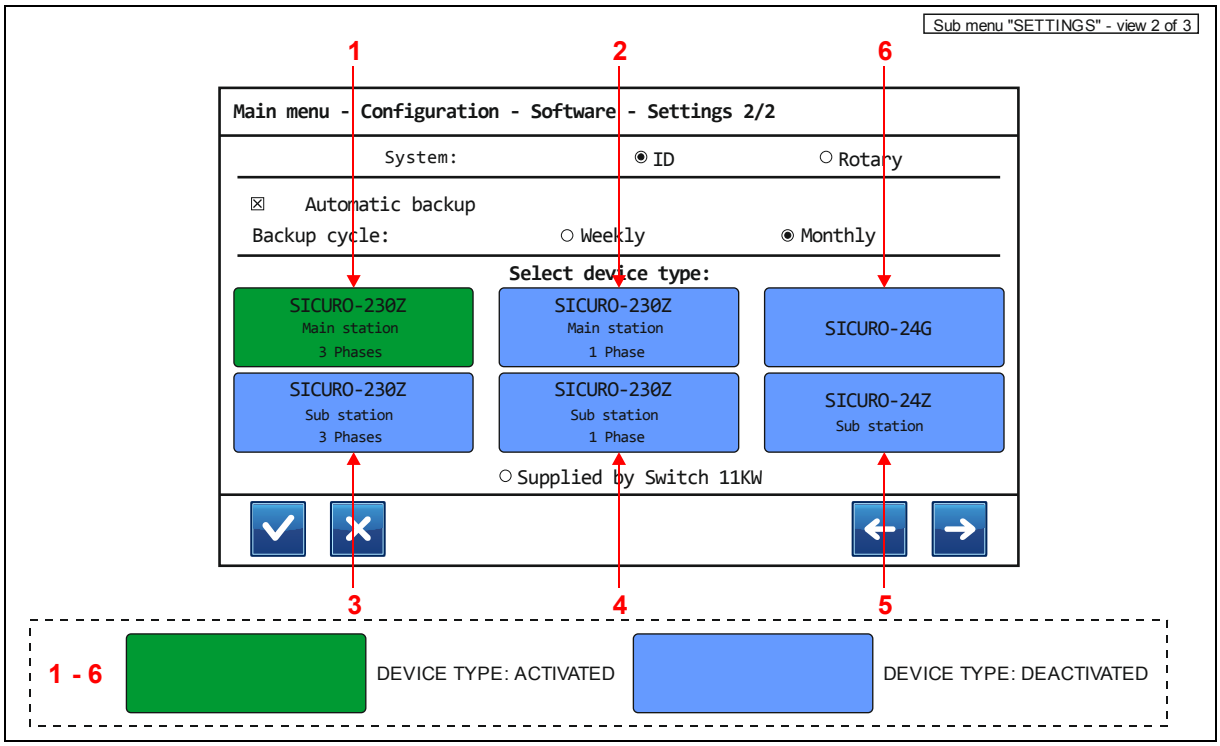
"6": button field – execution of the operating system for device type:
SICURO-24G

► "System:" ► "ID" / "Rotary":
button fields – activation of the addressing type ID (automatic, without use of the rotary switch) /
Rotary (manual, with use of the rotary switch) regarding the used luminaire modules of the installation

► "Automatic backup":
button field – activation / deactivation of the automatic backup

► "Backup cycle:" ► "Weekly" / "Monthly":
button fields – activation of the weekly / monthly backup cycle

► "Supplied by Switch 11KW":
button field – activation / deactivation of the device function for a combined mains and battery supply regarding the previously selected device type:
SICURO-230Z as sub station with mains supply by one phase



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SICURO-24Z and SICURO-24G:

An actuation of the button field ➡ calls up the following view in the sub menu "SETTINGS 1/2".

View – 3 of 3:

"1": button field – execution of the operating system for device type:
SICURO-230Z as main station with mains supply by three phases

"2": button field – execution of the operating system for device type:
SICURO-230Z as main station with mains supply by one phase

"3": button field – execution of the operating system for device type:
SICURO-230Z as sub station with mains supply by three phases

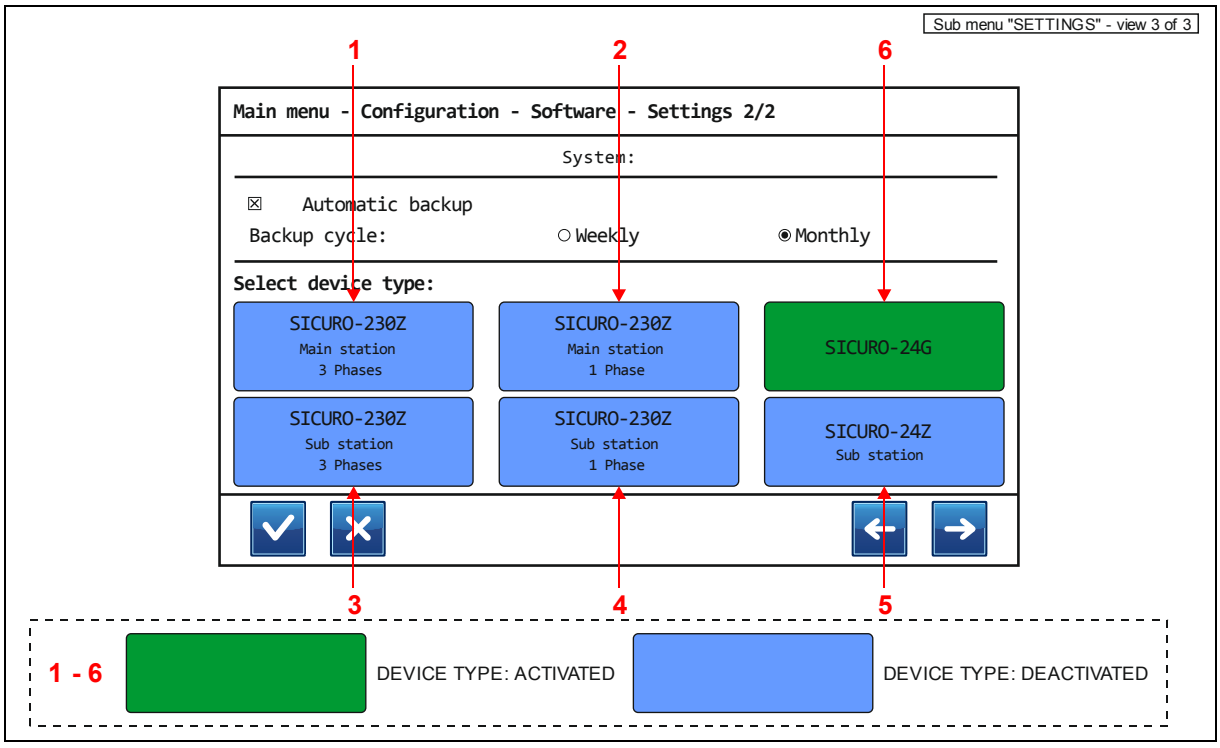
"4": button field – execution of the operating system for device type:
SICURO-230Z as sub station with mains supply by one phase

"5": button field – execution of the operating system for device type:
SICURO-24Z as sub station

"6": button field – execution of the operating system for device type:
SICURO-24G

► "System:" ► "Automatic backup":
button field – activation / deactivation of the automatic backup

► "System:" ► "Backup cycle:" ► "Weekly" / "Monthly":
button fields – activation of the weekly / monthly backup cycle



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Automatic backup:

If this device function is activated the operating system executes weekly or monthly the automatic saving of a backup. At this procedure the operating system saves the current device configuration of the respective emergency light station on the CPU card. In the sub menu "SAVE BACKUP" (see sub menu 1-1-7-7) a manual saving of a backup can be executed.

> A maximum of 10 backups can be saved. The automatic saving of a further backup overwrites the already present backup with the youngest date. A manual saving of a further backup can not be executed. To be still able to execute the manual saving of a backup saved backups must be deleted at first.

> Only one backup can be saved per day. A repeated saving on one day overwrites the already present backup with the youngest date if the saving procedure was executed automatically. A repeated saving on one day overwrites the already present backup with the youngest date if the saving procedure was executed manually and the maximum quantity of 10 saved backups is not reached.

Note: **A backup is suitable for the recovery of the device configuration regarding an emergency light station.**

Device type:

An actuation of the button fields "1" to "6" executes the operating system for the respective device type.

Attention: **The selected device type as well as the selection regarding the device function for a combined mains and battery supply must correspond with the actual device type of the respective emergency light station. Otherwise safety-relevant malfunctions and device damages can occur. The device type is designated on the type plate of the respective emergency light station. After a selection resp. change of the device type the operating system executes a warm start.**

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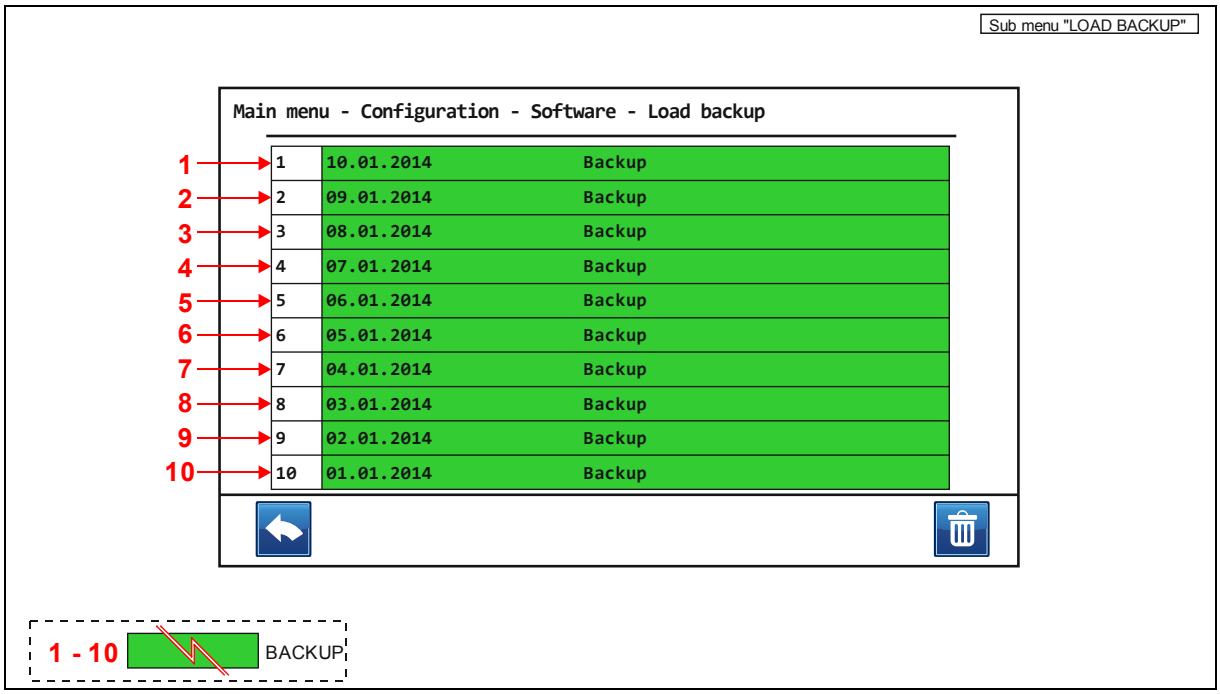
1-1-7-6 "LOAD BACKUP"

In the sub menu "LOAD BACKUP" internal backups of the device configuration are managed manually. Internal backups can only be saved on the CPU card. All indicated backups can be loaded and deleted. In the sub menu "SETTINGS" (see sub menu 1-1-7-5) an automatic backup can be configured.

"1-10": button fields – actuation of the numbered area: selection / deselection of a backup, actuation of the green area: loading of a backup



An actuation of the green area regarding the button field of a backup executes the manual loading of a backup. At this procedure the operating system loads a previously saved device configuration from the CPU card on the respective emergency light station.

> A maximum of 10 backups can be saved. The automatic saving of a further backup overwrites the already present backup with the youngest date. A manual saving of a further backup can not be executed. To be still able to execute the manual saving of a backup saved backups must be deleted at first.

> Only one backup can be saved per day. A repeated saving on one day overwrites the already present backup with the youngest date if the saving procedure was executed automatically. A repeated saving on one day overwrites the already present backup with the youngest date if the saving procedure was executed manually and the maximum quantity of 10 saved backups is not reached.

Note: **A backup is suitable for the recovery of the device configuration regarding an emergency light station.**

Attention: **The settings regarding the automatic backup in the sub menu "SETTINGS 2/2" (see sub menu 1-1-7-5) must be observed.**

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1-1-7-7 "SAVE BACKUP"

An actuation of the button field "SAVE BACKUP" executes the manual saving of a backup. At this procedure the operating system saves the current device configuration of the respective emergency light station on the CPU card. In the sub menu "SETTINGS 2/2" (see sub menu 1-1-7-5) an automatic backup can be configured.

> A maximum of 10 backups can be saved. The automatic saving of a further backup overwrites the already present backup with the youngest date. A manual saving of a further backup can not be executed. To be still able to execute the manual saving of a backup saved backups must be deleted at first.

> Only one backup can be saved per day. A repeated saving on one day overwrites the already present backup with the youngest date if the saving procedure was executed automatically. A repeated saving on one day overwrites the already present backup with the youngest date if the saving procedure was executed manually and the maximum quantity of 10 saved backups is not reached.

Note: **A backup is suitable for the recovery of the device configuration regarding an emergency light station.**

Attention: **The settings regarding the automatic backup in the sub menu "SETTINGS 2/2" (see sub menu 1-1-7-5) must be observed.**

1-1-8 "DYNAMIC SWITCH"

The sub menu "DYNAMIC SWITCH" is intended as function extension for special applications in the described software versions and may not be used otherwise.

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1-2 "LUMINAIRES"

In the sub menu "LUMINAIRES" the operating modes, LSSA switch inputs and function extensions for the luminaire modules of the respective emergency light station are configured. Every luminaire module with driver function can be programmed with an individual dimming value. Furthermore the luminaire modules can be added / removed to / from previously configured groups and text designations for luminaire modules can be entered free.

> A luminaire module can be added to a maximum of 4 previously configured groups.

> A luminaire module can only be added to several groups if not the same time or query functions are configured in these groups.

SICURO-230Z – luminaire module with driver function:

An actuation of the button field "7" regarding the view 1 of 7 calls up the following view in the sub menu "LUMINAIRES", if a luminaire module with driver function was selected.

View – 1 of 7:

"1": button field with multiple selection – selection of the output circuit

"2": text field – indication of the ID number for the respective output card

"3": button field – free input of the module name (0 - 32 signs) for the respective luminaire module

"4": text field – entered module name of the respective luminaire module

"5": button field – selection of the operating mode "Maintained mode" for the respective luminaire module, not possible at luminaire modules with inverter function

"6": button field – selection of the operating mode "Non-maintained mode" for the respective luminaire module

"7": button field – selection of the operating mode "Groups" for the respective luminaire module, not possible at luminaire modules with inverter function

"8": button field – adding of the respective luminaire module to the previously configured groups (1 - 64, max. 4 groups)

"9": button field – removal of the respective luminaire module from the previously configured groups (1 - 64, max. 4 groups)

"10": button fields – selection of the dimming value (10, 20, 30, 40, 50, 60, 70, 80, 90, 100 percent) for the respective luminaire module

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "Luminaire:":
button field – call-up of the view for selection of the module address

► "Type:":
text field – indication of the module type for the respective luminaire module

► "Dimming value:":
text field – selected dimming value of the respective luminaire module

► "Adapter LS":
button field – selection of the query function "Light switch" for the LSSA switch input on the LSSA adapter of the respective luminaire module

► "Adapter UV":
button field – selection of the query function "Sub-distribution" for the LSSA switch input on the LSSA adapter of the respective luminaire module

► "Negated":
button fields – activation / deactivation of the negated switch function for the LSSA switch input on the LSSA adapter of the respective luminaire module

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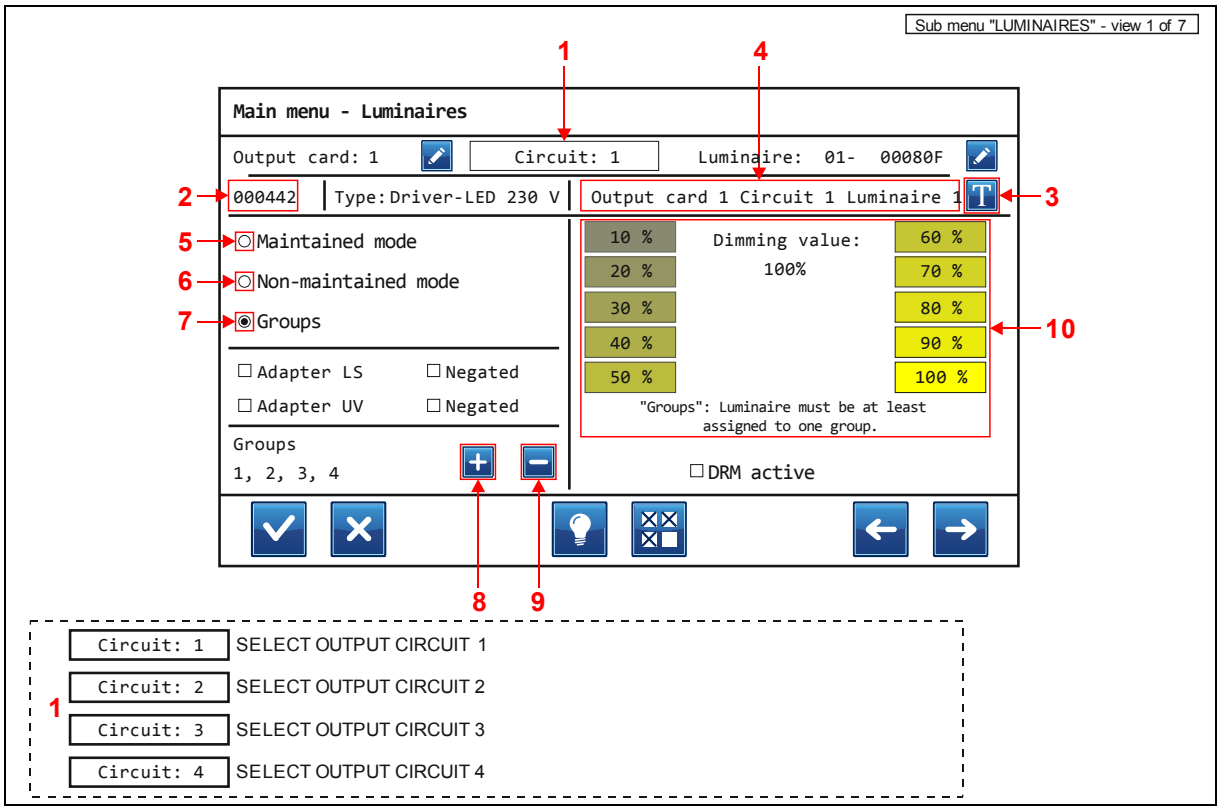
► "Groups":
text field – indication of the groups to which the respective luminaire module is added

► "DRM active":
button field – activation / deactivation of the function extension DRM for the respective luminaire module with DRM function (for a self-contained single battery)



SICURO-24Z and SICURO-24G – luminaire module with driver function:

An actuation of the button field "7" regarding the view 2 of 7 calls up the following view in the sub menu "LUMINAIRES", if a luminaire module with driver function was selected.

View – 2 of 7:

"1": button field with multiple selection – selection of the output circuit

"2": text field – indication of the ID number for the respective output card

"3": button field – free input of the module name (0 - 32 signs) for the respective luminaire module

"4": text field – entered module name of the respective luminaire module

"5": button field – selection of the operating mode "Maintained mode" for the respective luminaire module, not possible at luminaire modules with inverter function

"6": button field – selection of the operating mode "Non-maintained mode" for the respective luminaire module

"7": button field – selection of the operating mode "Groups" for the respective luminaire module, not possible at luminaire modules with inverter function

"8": button field – adding of the respective luminaire module to the previously configured groups (1 - 64, max. 4 groups)

"9": button field – removal of the respective luminaire module from the previously configured groups (1 - 64, max. 4 groups)

"10": button fields – selection of the dimming value (10, 20, 30, 40, 50, 60, 70, 80, 90, 100 percent) for the respective luminaire module

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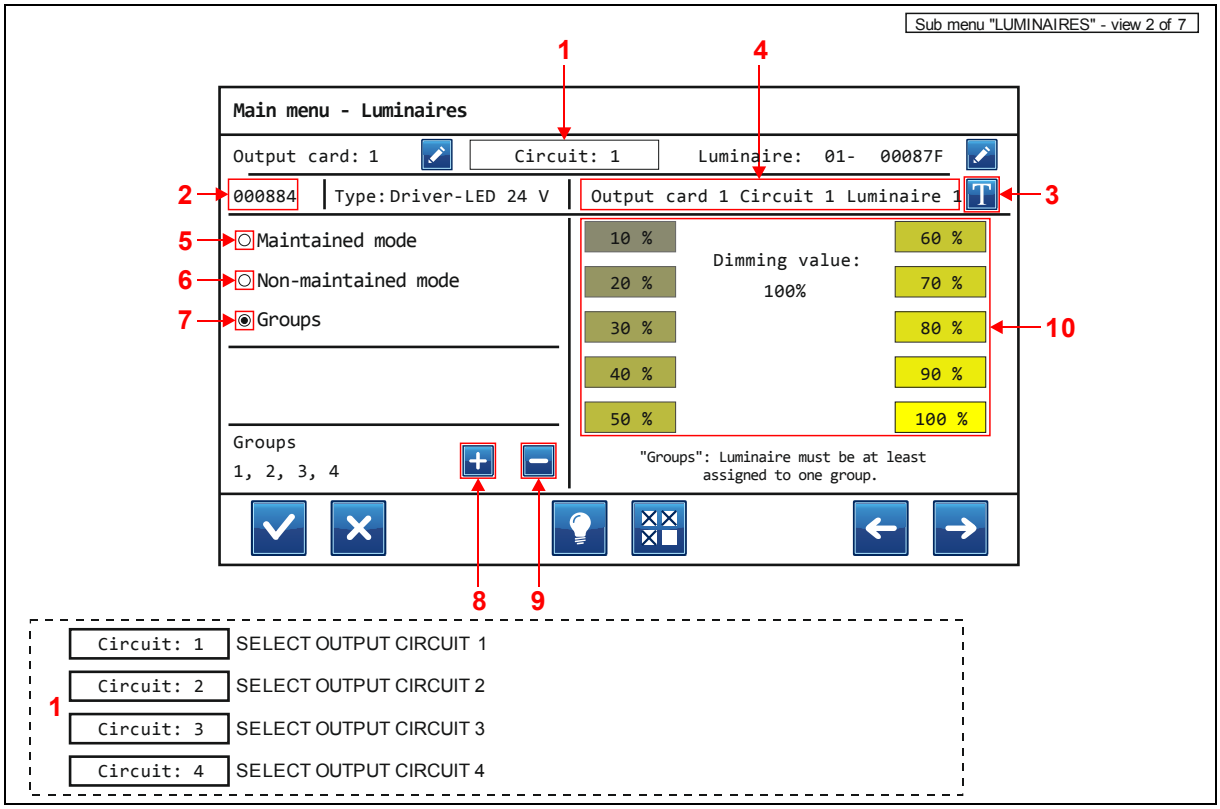
► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "Luminaire:":
button field – call-up of the view for selection of the module address

► "Type:":
text field – indication of the module type for the respective luminaire module

► "Dimming value:":
text field – selected dimming value of the respective luminaire module

► "Groups":
text field – indication of the groups to which the respective luminaire module is added



SICURO-230Z – luminaire module with inverter function:

An actuation of the button field "6" regarding the view 3 of 7 calls up the following view in the sub menu "LUMINAIRES", if a luminaire module with inverter function was selected.

View – 3 of 7:

"1": button field with multiple selection – selection of the output circuit

"2": text field – indication of the ID number for the respective output card

"3": button field – free input of the module name (0 - 32 signs) for the respective luminaire module

"4": text field – entered module name of the respective luminaire module

"5": button field – selection of the operating mode "Maintained mode" for the respective luminaire module, not possible at luminaire modules with inverter function

"6": button field – selection of the operating mode "Non-maintained mode" for the respective luminaire module

"7": button field – selection of the operating mode "Groups" for the respective luminaire module, not possible at luminaire modules with inverter function

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"8": button field – adding of the respective luminaire module to the previously configured groups (1 - 64, max. 4 groups)

"9": button field – removal of the respective luminaire module from the previously configured groups (1 - 64, max. 4 groups)

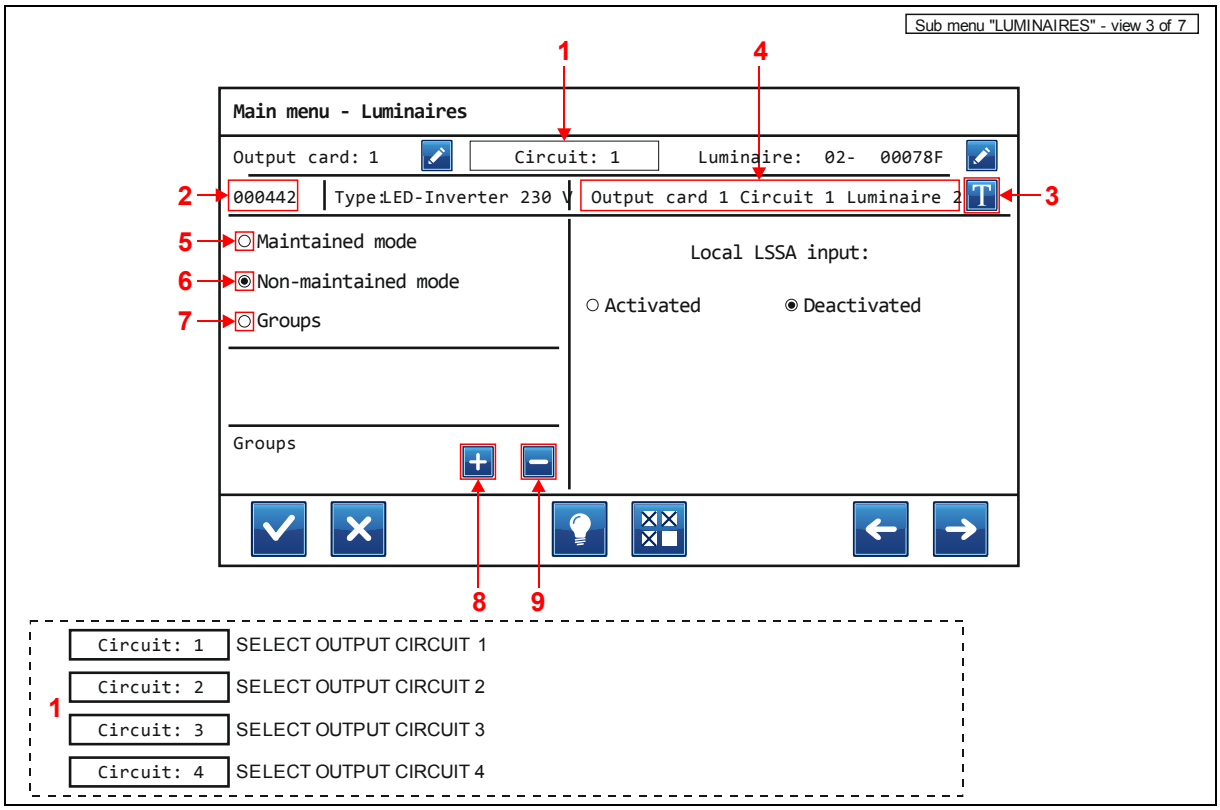
► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "Luminaire:":
button field – call-up of the view for selection of the module address

► "Type:":
text field – indication of the module type for the respective luminaire module

► "Local LSSA input:" ► "Activated" / "Deactivated":
button fields – activation / deactivation of the LSSA switch input on the respective luminaire module

► "Groups":
text field – indication of the groups to which the respective luminaire module is added



SICURO-24Z and SICURO-24G – luminaire module with inverter function:

An actuation of the button field "6" regarding the view 4 of 7 calls up the following view in the sub menu "LUMINAIRES", if a luminaire module with inverter function was selected.

View – 4 of 7:

"1": button field with multiple selection – selection of the output circuit

"2": text field – indication of the ID number for the respective output card

"3": button field – free input of the module name (0 - 32 signs) for the respective luminaire module

"4": text field – entered module name of the respective luminaire module

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"5": button field – selection of the operating mode "Maintained mode" for the respective luminaire module, not possible at luminaire modules with inverter function

"6": button field – selection of the operating mode "Non-maintained mode" for the respective luminaire module

"7": button field – selection of the operating mode "Groups" for the respective luminaire module, not possible at luminaire modules with inverter function

"8": button field – adding of the respective luminaire module to the previously configured groups (1 - 64, max. 4 groups)

"9": button field – removal of the respective luminaire module from the previously configured groups (1 - 64, max. 4 groups)

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

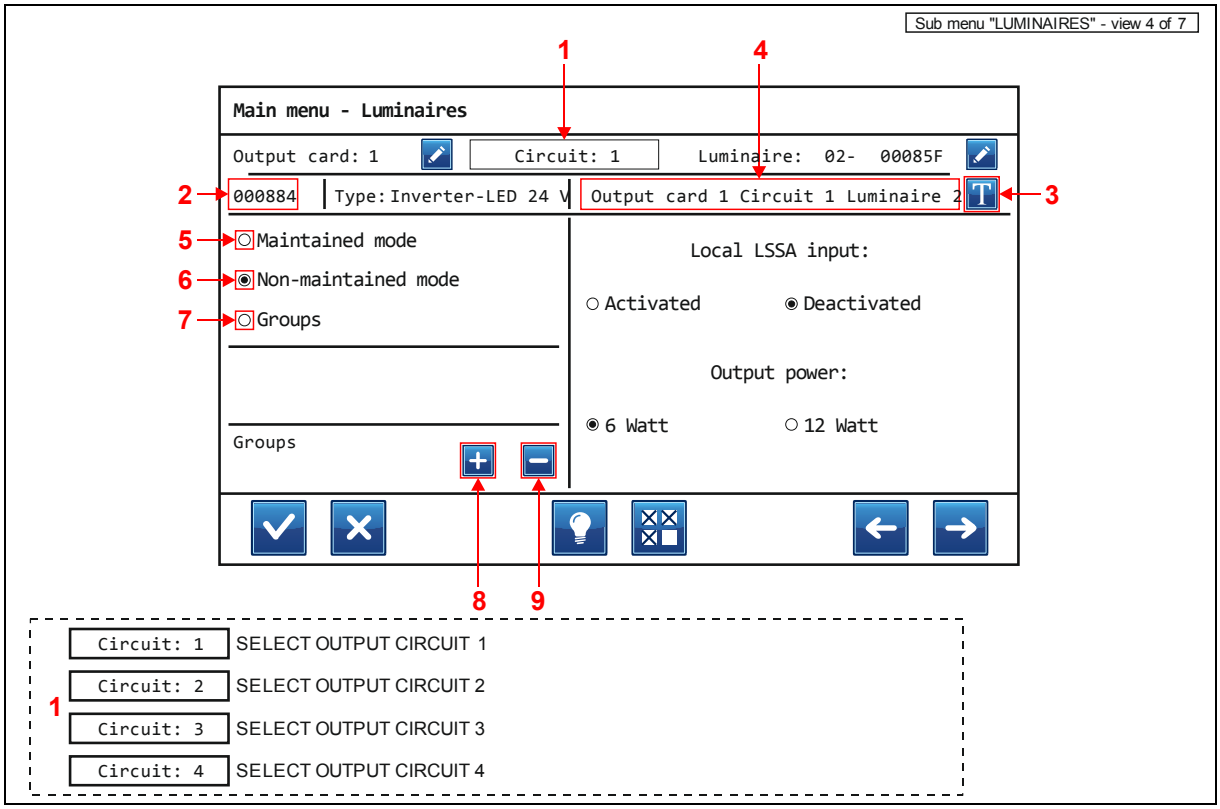
► "Luminaire:":
button field – call-up of the view for selection of the module address

► "Type:":
text field – indication of the module type for the respective luminaire module

► "Local LSSA input:" ► "Activated" / "Deactivated":
button fields – activation / deactivation of the LSSA switch input on the respective luminaire module

► "Output power:" ► "6 Watt" / "12 Watt":
button fields – selection of the output power for the respective luminaire module

► "Groups":
text field – indication of the groups to which the respective luminaire module is added



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SICURO-230Z – luminaire module with switch function:

An actuation of the button field "6" regarding the view 5 of 7 calls up the following view in the sub menu "LUMINAIRES", if a luminaire module with switch function was selected.

View – 5 of 7:

"1": button field with multiple selection – selection of the output circuit

"2": text field – indication of the ID number for the respective output card

"3": button field – free input of the module name (0 - 32 signs) for the respective luminaire module

"4": text field – entered module name of the respective luminaire module

"5": button field – selection of the operating mode "Maintained mode" for the respective luminaire module, not possible at luminaire modules with inverter function

"6": button field – selection of the operating mode "Non-maintained mode" for the respective luminaire module

"7": button field – selection of the operating mode "Groups" for the respective luminaire module, not possible at luminaire modules with inverter function

"8": button field – adding of the respective luminaire module to the previously configured groups (1 - 64, max. 4 groups)

"9": button field – removal of the respective luminaire module from the previously configured groups (1 - 64, max. 4 groups)

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "Luminaire:":
button field – call-up of the view for selection of the module address

► "Type:":
text field – indication of the module type for the respective luminaire module

► "Switch 500W programming" ► "Local LSSA LS":
button field – selection of the query function "Light switch" for the LSSA switch input on the respective luminaire module

► "Switch 500W programming" ► "Local LSSA UV":
button field – selection of the query function "Sub-distribution" for the LSSA switch input on the respective luminaire module

► "Switch 500W programming" ► "LSSA adapter LS":
button field – selection of the query function "Light switch" for the LSSA switch input on the LSSA adapter of the respective luminaire module

► "Switch 500W programming" ► "LSSA adapter UV":
button field – selection of the query function "Sub-distribution" for the LSSA switch input on the LSSA adapter of the respective luminaire module

► "Switch 500W programming" ► "Negated":
button fields – activation / deactivation of the negated switch function for the LSSA switch input on the respective luminaire module resp. on the LSSA adapter of the respective luminaire module

► "Groups":
text field – indication of the groups to which the respective luminaire module is added

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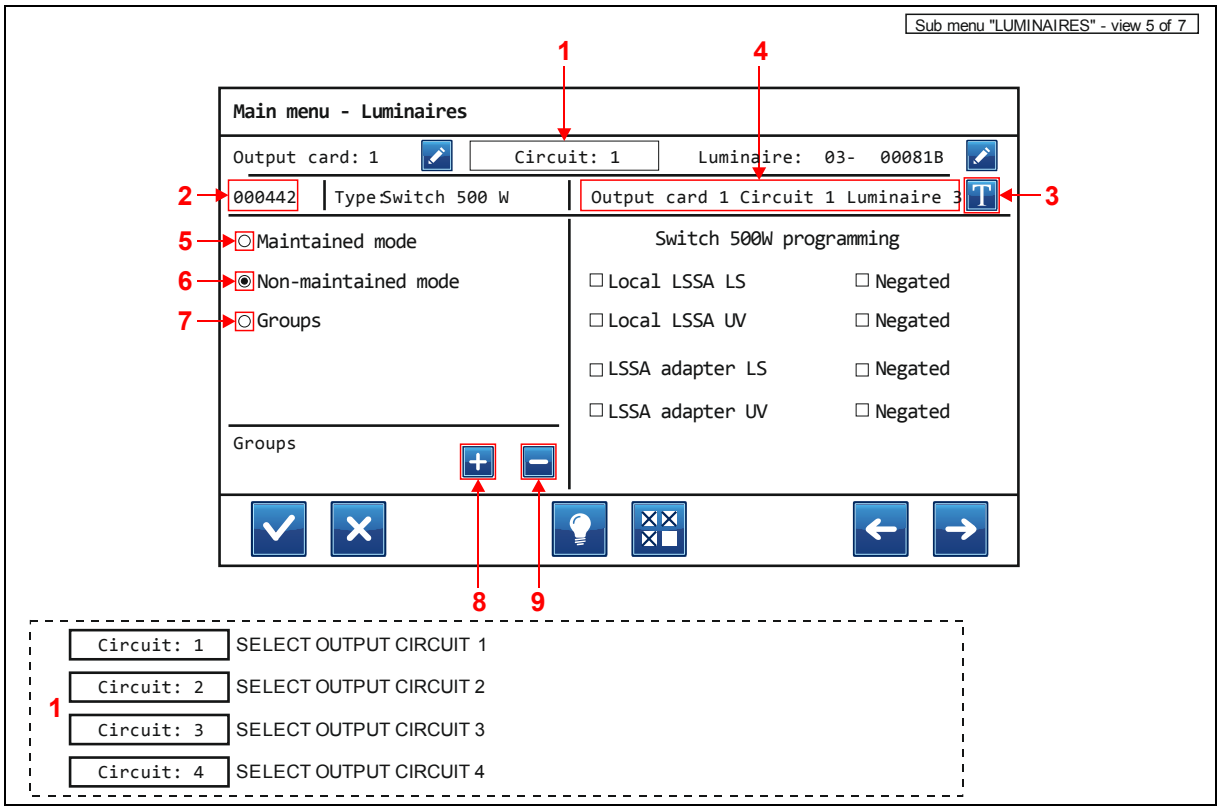

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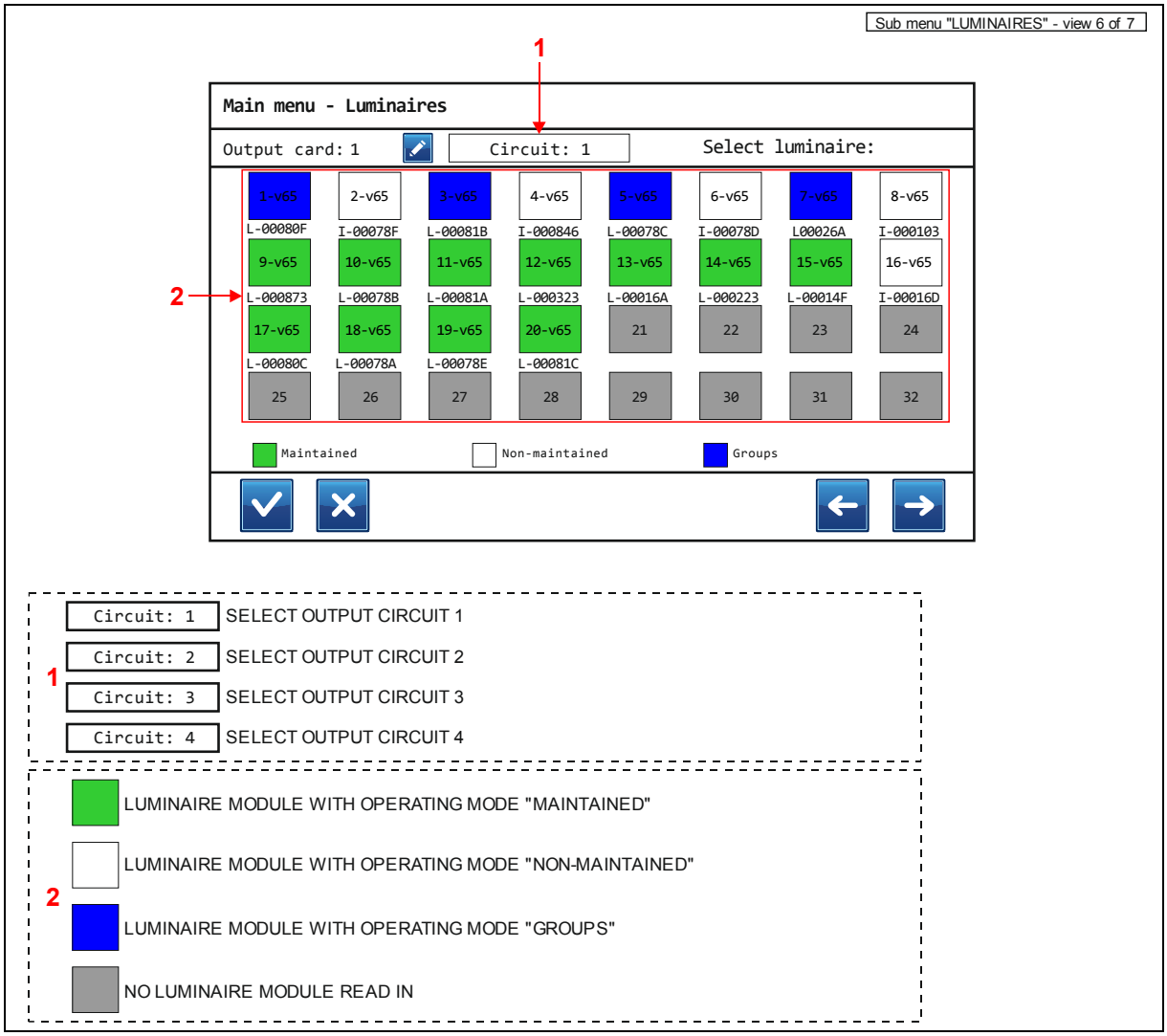
SICURO-230Z, SICURO-24Z and SICURO-24G:

An actuation of the button field regarding the designation "Luminaire:" calls up the following view in the sub menu "LUMINAIRES".

View – 6 of 7:

"1": button field with multiple selection – selection of the output circuit

"2": button fields with optical indications – indication of module address, software version, assignment sign and ID number of the respective luminaire module as well as the groups to which the respective luminaire module is added,
actuation of a button field:
selection of a module address



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An actuation of the button field calls up the following view in the sub menu "LUMINAIRES".

View – 7 of 7:

"1": button field with multiple selection – selection of the output circuit

"2": button field – selection / deselection of all luminaire modules with driver function / switch function of the selected output circuit

"3": button field – selection / deselection of all luminaire modules with inverter function of the selected output circuit

"4": button fields with optical indications – indication of module address, software version, assignment sign and ID number of the respective luminaire module as well as the groups to which the respective luminaire module is added, actuation of a button field / several button fields:
selection of a module address / several module addresses

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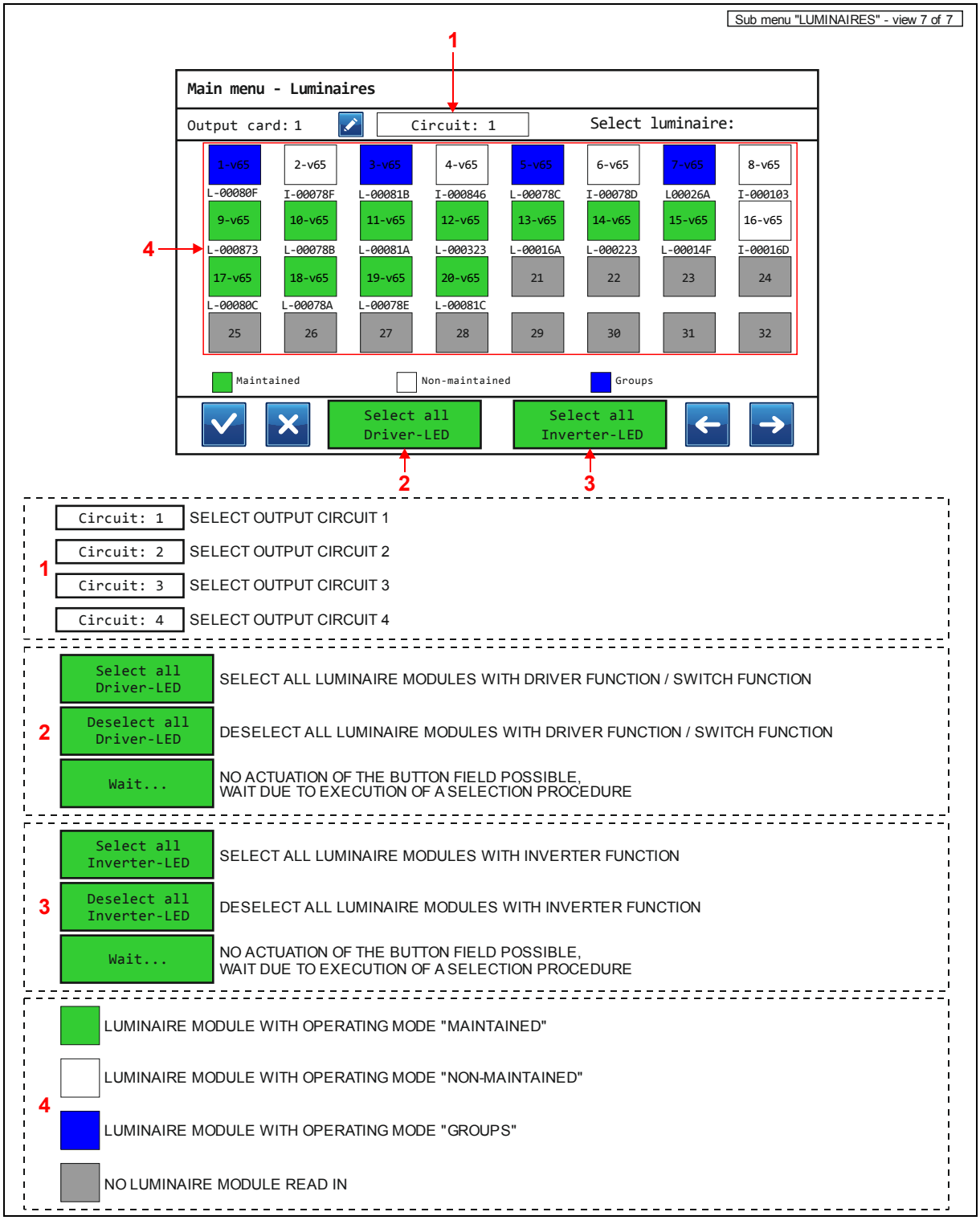

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1-3 "OUTPUT CIRCUITS"

In the sub menu "OUTPUT CIRCUITS" the operating modes for the output circuits of the respective emergency light station are configured. Every output circuit can be programmed with an individual operating time. At output cards of the types AKS 1/2/4 EÜ the monitoring type SÜ can be selected per output circuit. Furthermore every output circuit can be deactivated and text designations for output circuits can be entered free.

Operating time –
premature switch-off for output circuits at emergency operation with battery supply:

Every output circuit can be individually programmed with an operating time. At this device function the respective output circuits are being switched off prematurely by the operating system after expiration of the set operating times if a general supply failure (emergency operation with battery supply) is present. The respective output circuits are not being switched off prematurely by the operating system after expiration of the set operating times if a partial supply failure (emergency operation with mains supply) is present.

Attention: **The operating time takes effect on the emergency operation with battery supply. In most of the rules resp. regulations it is not allowed to limit the operating time and with this the emergency duration of an installation. This means that according to most of the rules resp. regulations an installation must be operated with the required emergency duration until the voltage of the battery supply drops down to the switch-off value. This corresponds to a switch-off of all output circuits by activation of the deep discharge protection.**

An actuation of the button field "8" regarding the view 1 of 3 calls up the following view in the sub menu "OUTPUT CIRCUITS".

View – 1 of 3:

"1": button field with multiple selection – selection of the output circuit

"2": button field with multiple selection – selection of the monitoring type for the respective output circuit, selection is only possible with output cards of the types AKS 1/2/4 EÜ

"3": text field – indication of the ID number for the respective output card

"4": button field – free input of the output circuit name (0 - 32 signs) for the respective output circuit

"5": text field – entered output circuit name of the respective output circuit

"6": button field – selection of the operating mode "Maintained mode" for the respective output circuit

"7": button field – selection of the operating mode "Non-maintained mode" for the respective output circuit

"8": button field – selection of the operating mode "Time switch" for the respective output circuit

"9": button field – selection of the operating mode "Stairway pushbutton" for the respective output circuit

"10": button field – selection of the operating mode "Switchable" for the respective output circuit

"11": button field with multiple selection – selection of the previously configured time function "Time switch" ("1 - 3") at the operating mode "Time switch" of the respective output circuit

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "Deactivated":
button field – activation / deactivation of the respective output circuit

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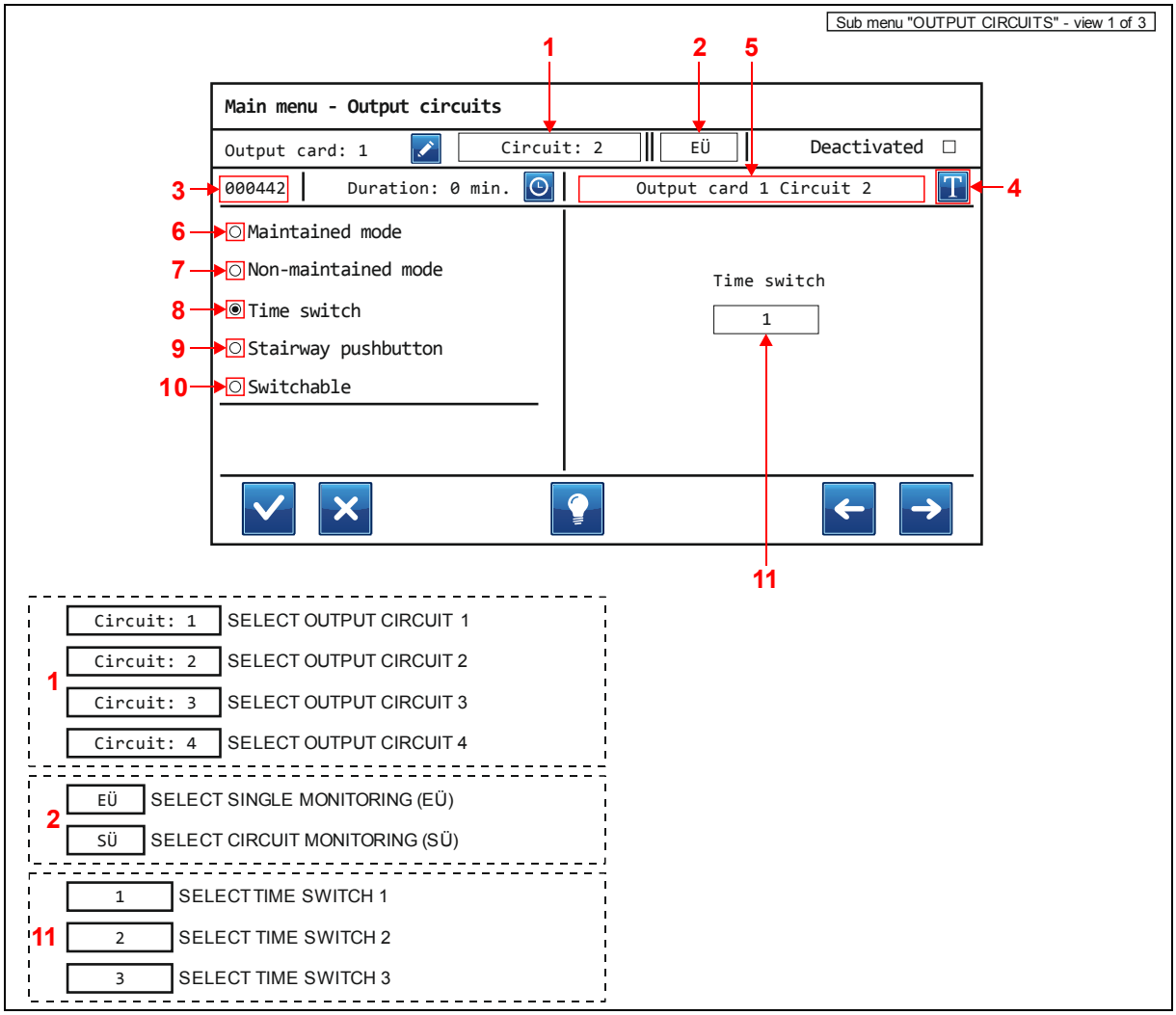
► "Duration:":
button field – input of the operating time for the respective output circuit at emergency operation with battery supply,
0 = unlimited duration up to activation of the deep discharge protection (0 - 600 minutes)



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An actuation of the button field "9" calls up the following view in the sub menu "OUTPUT CIRCUITS".

View – 2 of 3:

"1": button field with multiple selection – selection of the output circuit

"2": button field with multiple selection – selection of the monitoring type for the respective output circuit, selection is only possible with output cards of the types AKS 1/2/4 EÜ

"3": text field – indication of the ID number for the respective output card

"4": button field – free input of the output circuit name (0 - 32 signs) for the respective output circuit

"5": text field – entered output circuit name of the respective output circuit

"6": button field – selection of the operating mode "Maintained mode" for the respective output circuit

"7": button field – selection of the operating mode "Non-maintained mode" for the respective output circuit

"8": button field – selection of the operating mode "Time switch" for the respective output circuit

"9": button field – selection of the operating mode "Stairway pushbutton" for the respective output circuit

"10": button field – selection of the operating mode "Switchable" for the respective output circuit

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "Deactivated":
button field – activation / deactivation of the respective output circuit

► "Duration:":
button field – input of the operating time for the respective output circuit at emergency operation with battery supply,
0 = unlimited duration up to activation of the deep discharge protection (0 - 600 minutes)

► "Stairway pushbutton:":
button field – adding / removal of the previously assigned logic address (1 - 772) regarding the query function "Stairway pushbutton" at the operating mode "Stairway pushbutton" to / from the respective output circuit

► "Duration:":
button field – input of the switch-on time in automatic, manual and emergency operation
(1 - 480 minutes) for the query function "Stairway pushbutton" at the operating mode "Stairway pushbutton" of the respective output circuit

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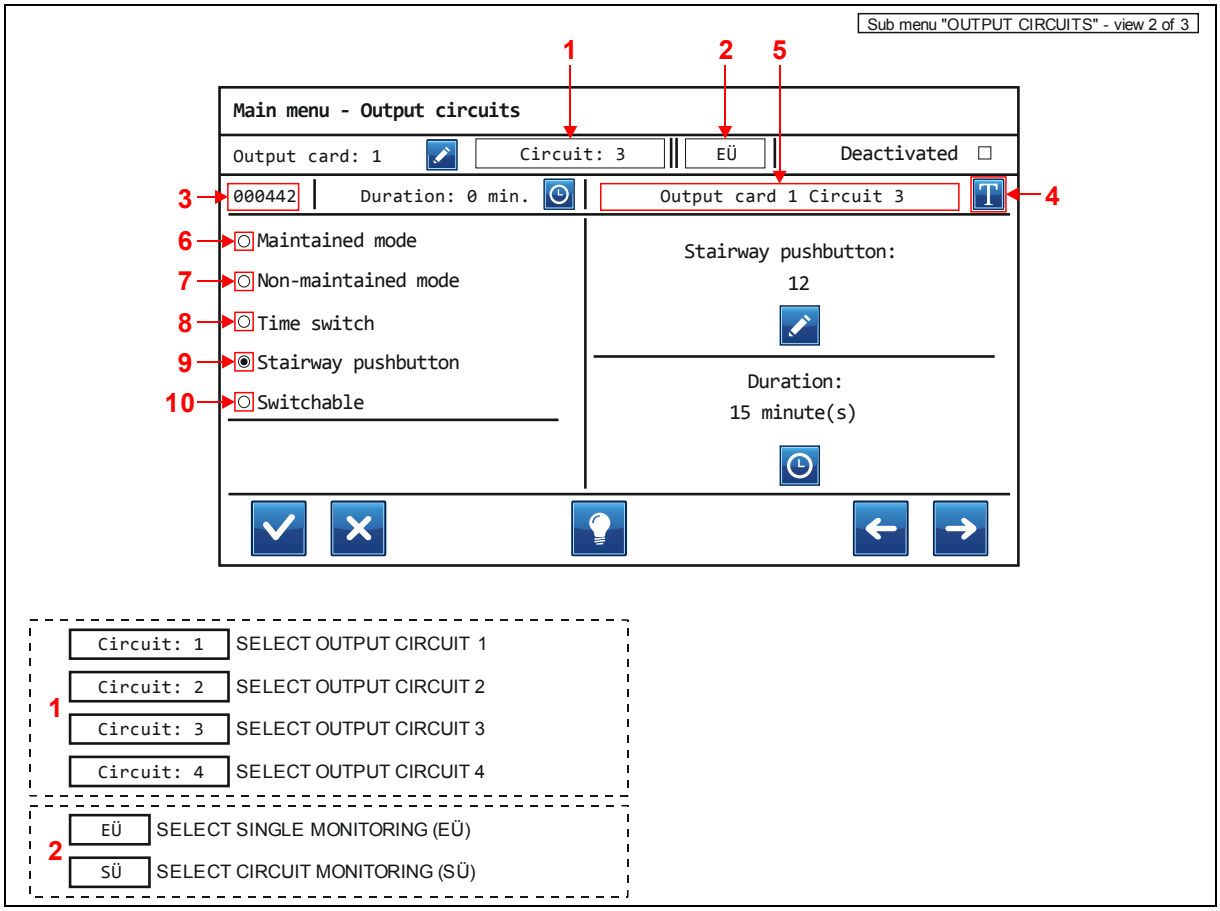

An actuation of the button field "10" calls up the following view in the sub menu "OUTPUT CIRCUITS".

View – 3 of 3:

"1": button field with multiple selection – selection of the output circuit

"2": button field with multiple selection – selection of the monitoring type for the respective output circuit, selection is only possible with output cards of the types AKS 1/2/4 EÜ

"3": text field – indication of the ID number for the respective output card

"4": button field – free input of the output circuit name (0 - 32 signs) for the respective output circuit

"5": text field – entered output circuit name of the respective output circuit

"6": button field – selection of the operating mode "Maintained mode" for the respective output circuit

"7": button field – selection of the operating mode "Non-maintained mode" for the respective output circuit

"8": button field – selection of the operating mode "Time switch" for the respective output circuit

"9": button field – selection of the operating mode "Stairway pushbutton" for the respective output circuit

"10": button field – selection of the operating mode "Switchable" for the respective output circuit

"11": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Light switch" at the operating mode "Switchable" to the respective output circuit

"12": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Light switch" at the operating mode "Switchable" from the respective output circuit

"13": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Sub-distribution" at the operating mode "Switchable" to the respective output circuit

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"14": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Sub-distribution" at the operating mode "Switchable" from the respective output circuit

"15": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Dynamic light" at the operating mode "Switchable" to the respective output circuit

"16": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Dynamic light" at the operating mode "Switchable" from the respective output circuit

"17": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Manual reset" at the operating mode "Switchable" to the respective output circuit

"18": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Manual reset" at the operating mode "Switchable" from the respective output circuit

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "Deactivated":
button field – activation / deactivation of the respective output circuit

► "Duration:":
button field – input of the operating time for the respective output circuit at emergency operation with battery supply,
0 = unlimited duration up to activation of the deep discharge protection (0 - 600 minutes)

► "Light switch:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Light switch" at the operating mode "Switchable" of the respective output circuit,
no logic address added: query function is not processed

► "Sub-distribution:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Sub-distribution" at the operating mode "Switchable" of the respective output circuit,
no logic address added: query function is not processed

► "Dynamic light:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Dynamic light" at the operating mode "Switchable" of the respective output circuit,
no logic address added: query function is not processed

► "Manual reset:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Manual reset" at the operating mode "Switchable" of the respective output circuit,
no logic address added: query function is not processed

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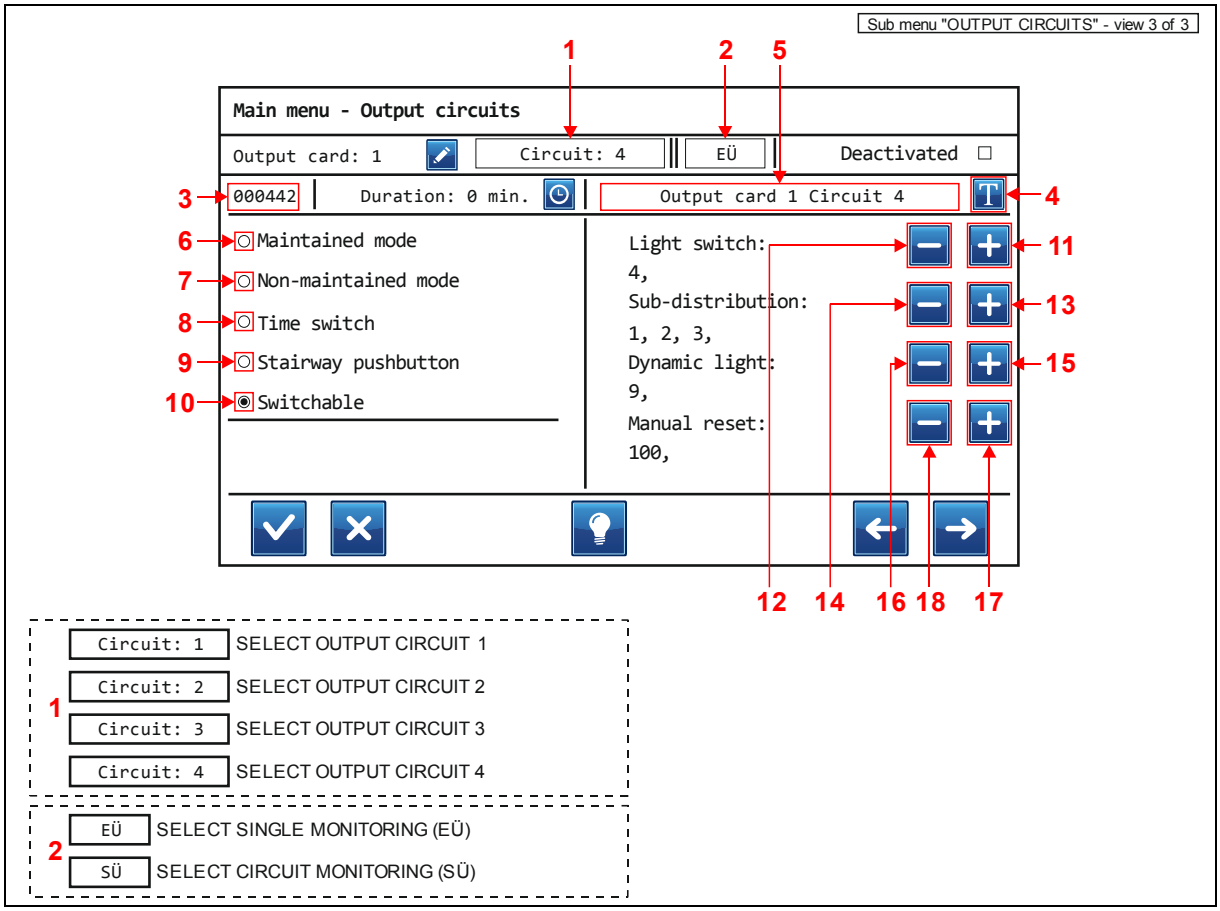

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1-4 "GROUPS"

In the sub menu "GROUPS" the operating modes for the groups of the respective emergency light station are configured. Furthermore the luminaire modules can be added / removed to / from previously configured groups and text designations for groups can be entered free.

> A maximum of 64 groups can be configured.

> A group is available if an operating mode was selected for the group. The selected operating mode must be configured appropriate.

> A luminaire module can be added to a maximum of 4 previously configured groups.

An actuation of the button field "4" regarding the view 1 of 5 calls up the following view in the sub menu "GROUPS".

View – 1 of 5:

"1": button field – free input of the group name (0 - 32 signs) for the respective group

"2": text field – entered group name of the respective group

"3": button field – selection of no operating mode for the respective group

"4": button field – selection of the operating mode "Time switch" for the respective group

"5": button field – selection of the operating mode "Stairway pushbutton" for the respective group

"6": button field – selection of the operating mode "Switchable" for the respective group

"7": button with multiple selection – selection of the previously configured time function "Time switch" ("1 - 3") at the operating mode "Time switch" of the respective group

"8": button field – indication of the luminaire modules which are added to the respective group

"9": button field – adding / removal of the luminaire modules to / from the respective group

► "Group:":
button field – input for selection of the group (1 - 64)

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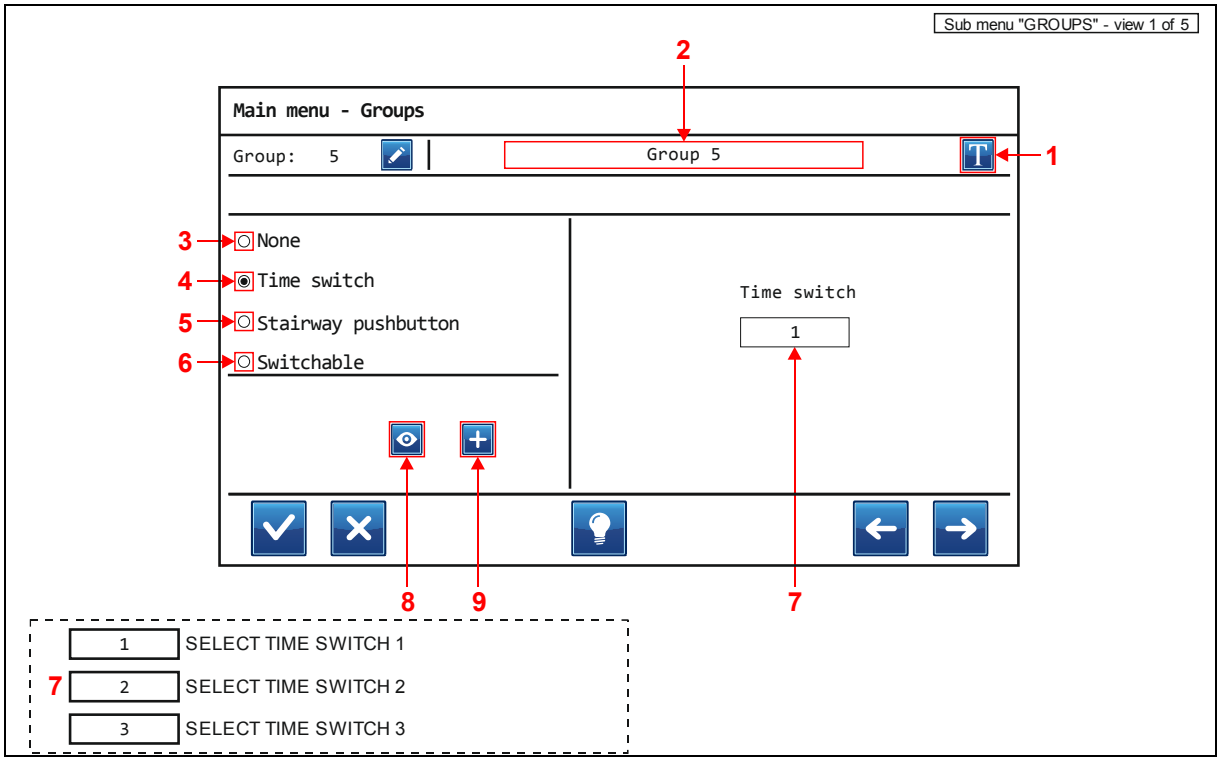

An actuation of the button field "5" calls up the following view in the sub menu "GROUPS".

View – 2 of 5:

"1": button field – free input of the group name (0 - 32 signs) for the respective group

"2": text field – entered group name of the respective group

"3": button field – selection of no operating mode for the respective group

"4": button field – selection of the operating mode "Time switch" for the respective group

"5": button field – selection of the operating mode "Stairway pushbutton" for the respective group

"6": button field – selection of the operating mode "Switchable" for the respective group

"7": button field – indication of the luminaire modules which are added to the respective group

"8": button field – adding / removal of the luminaire modules to / from the respective group

► "Group:":
button field – input for selection of the group (1 - 64)

► "Stairway pushbutton:":
button field – adding / removal of the previously assigned logic address (1 - 772) regarding the query function "Stairway pushbutton" at the operating mode "Stairway pushbutton" to / from the respective group

► "Duration:":
button field – input of the switch-on time in automatic, manual and emergency operation
(1 - 480 minutes) for the query function "Stairway pushbutton" at the operating mode "Stairway pushbutton" of the respective group

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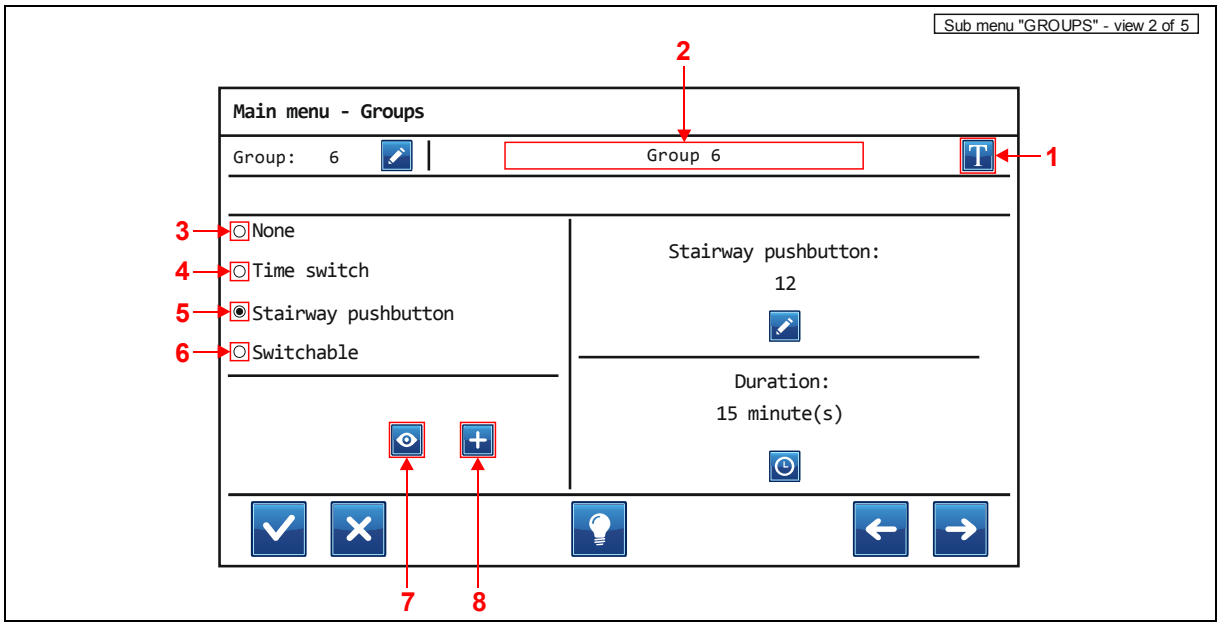

An actuation of the button field "6" calls up the following view in the sub menu "GROUPS".

View – 3 of 5:

"1": button field – free input of the group name (0 - 32 signs) for the respective group

"2": text field – entered group name of the respective group

"3": button field – selection of no operating mode for the respective group

"4": button field – selection of the operating mode "Time switch" for the respective group

"5": button field – selection of the operating mode "Stairway pushbutton" for the respective group

"6": button field – selection of the operating mode "Switchable" for the respective group

"7": button field – indication of the luminaire modules which are added to the respective group

"8": button field – adding / removal of the luminaire modules to / from the respective group

"9": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Light switch" at the operating mode "Switchable" to the respective group

"10": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Light switch" at the operating mode "Switchable" from the respective group

"11": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Sub-distribution" at the operating mode "Switchable" to the respective group

"12": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Sub-distribution" at the operating mode "Switchable" from the respective group

"13": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Dynamic light" at the operating mode "Switchable" to the respective group

"14": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Dynamic light" at the operating mode "Switchable" from the respective group

"15": button field – adding of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Manual reset" at the operating mode "Switchable" to the respective group

"16": button field – removal of the previously assigned logic addresses (1 - 772, max. 4 logic addresses) regarding the query function "Manual reset" at the operating mode "Switchable" from the respective group

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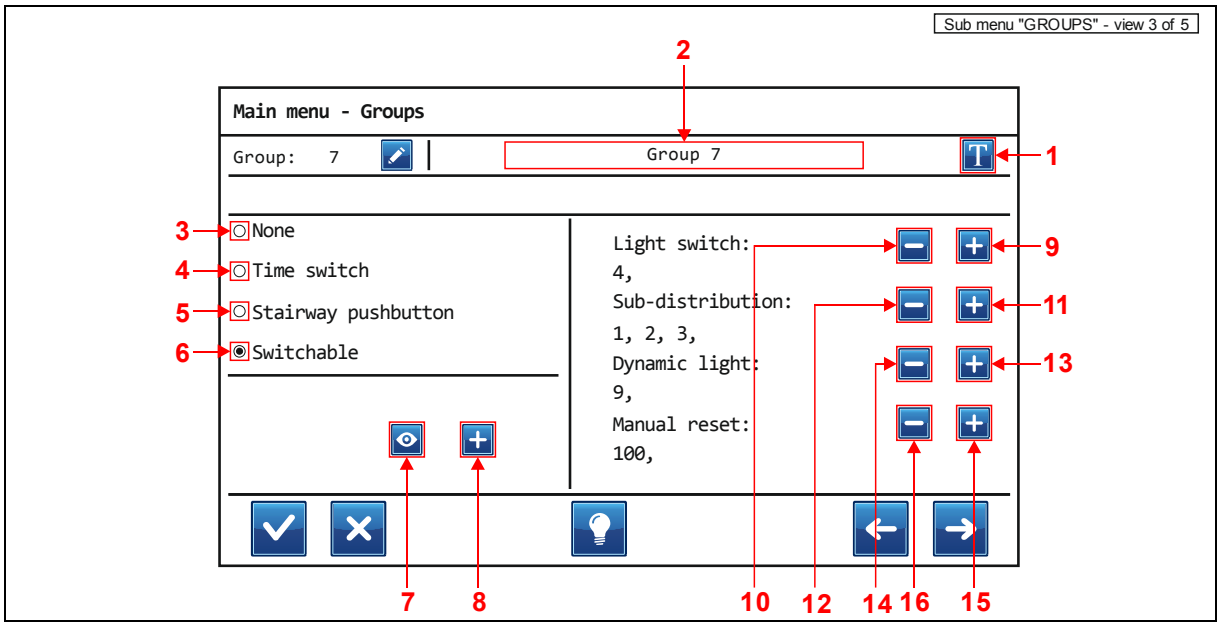
► "Group:":
button field – input for selection of the group (1 - 64)

► "Light switch:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Light switch" at the operating mode "Switchable" of the respective group,
no logic address added: query function is not processed

► "Sub-distribution:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Sub-distribution" at the operating mode "Switchable" of the respective group,
no logic address added: query function is not processed

► "Dynamic light:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Dynamic light" at the operating mode "Switchable" of the respective group,
no logic address added: query function is not processed

► "Manual reset:":
text field – selected logic addresses (max. 4 logic addresses) regarding the query function "Manual reset" at the operating mode "Switchable" of the respective group,
no logic address added: query function is not processed



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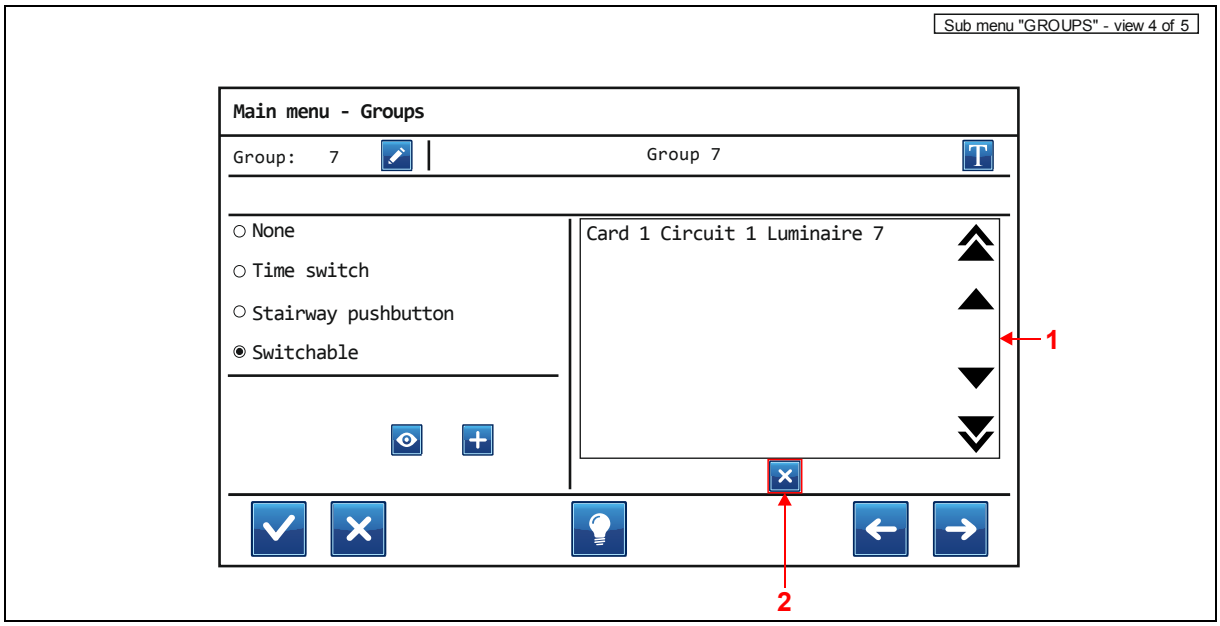
An actuation of the button field "7" ( ) calls up the following view in the sub menu "GROUPS".

View – 4 of 5:

"1": text field – indication of the luminaire modules which are added to the respective group

"2": button field – closing of the text field "1"



Note: **An actuation of the button field "2" ( ) closes the text field "1".**

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An actuation of the button field calls up the following view in the sub menu "GROUPS".

View – 5 of 5:

"1": button field – free input of the group name (0 - 32 signs) for the respective group

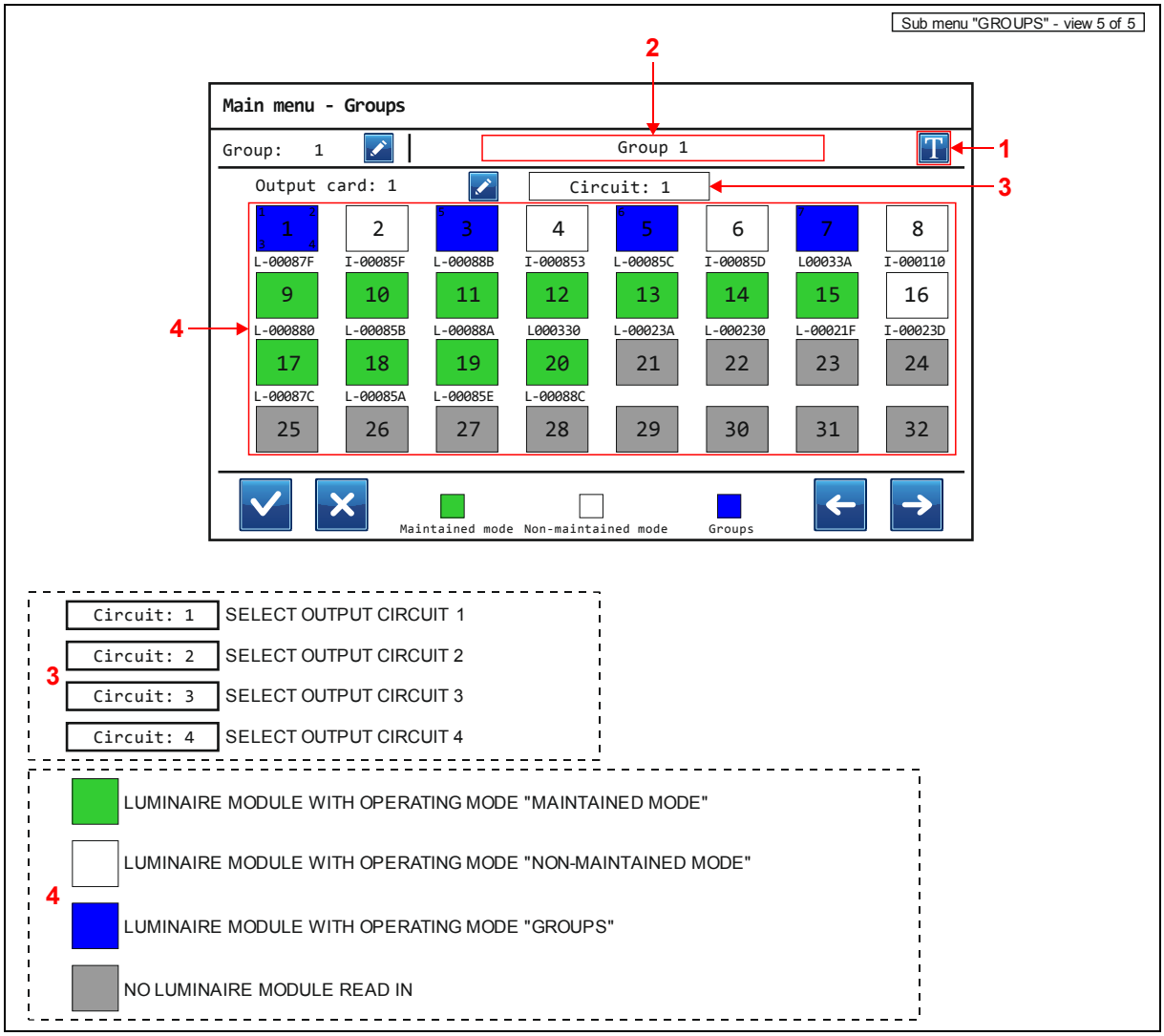
"2": text field – entered group name of the respective group

"3": button field with multiple selection – selection of the output circuit

"4": button fields with optical indications – indication of module address, assignment sign and ID number of the respective luminaire module as well as the groups to which the respective luminaire module is added,
actuation of a button field:
adding / removal of the luminaire module to / from the respective group (1 - 64, max. 4 groups)

► "Group:":
button field – input for selection of the group (1 - 64)

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card



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1-5 "READ-IN"

The sub menu consists of the following sub menus:

- 1-5-1 "LUMINAIRES AUTOMATIC"
- 1-5-2 " LUMINAIRES MANUAL"
- 1-5-3 "OUTPUT CARDS AUTOMATIC"
- 1-5-4 "OUTPUT CARDS MANUAL"
- 1-5-5 "EXTERNAL OUTPUT CARDS" – SICURO-230Z
- 1-5-5 "INTERNAL MODULES" – SICURO-24Z / SICURO-24G
- 1-5-6 "CHARGERS" – SICURO-230Z
- 1-5-6 "EXTERNAL MODULES " – SICURO-24Z / SICURO-24G
- 1-5-7 "STATIONS"

Over the sub menus a read-in for different equipment can be executed. All details regarding a read-in result are indicated directly.

The following equipment can be read in by a read-in:

- luminaire modules on output circuits of the monitoring type EÜ
- electrical loads of equipment on output circuits of the monitoring type SÜ
- internal output cards and switchover cards
- internal modules
- external modules
- charger cards
- emergency light stations and external output cards over station buses (RS485)
- emergency light stations over network (LAN)

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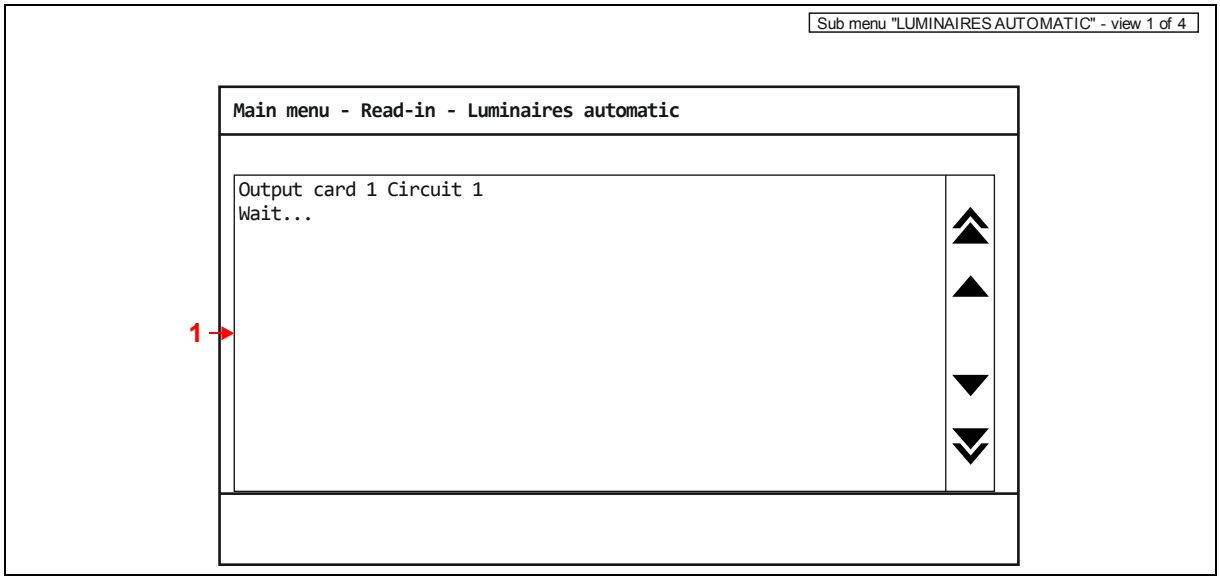
1-5-1 "LUMINAIRES AUTOMATIC"

An actuation of the button field "LUMINAIRES AUTOMATIC" executes an automatic read-in of all connected luminaire modules regarding the respective emergency light station. At this procedure the operating system switches on the output circuits sequentially with the respective battery output voltage and saves the read in data in the device configuration. After the automatic read-in of the luminaire modules is ended the luminaire positions can be changed manually, if the addressing type ID was selected.

> A maximum of 32 luminaire modules can be connected over the powerline bus per output circuit on an emergency light station.

View – 1 of 4:

"1": text field – quantity of the read in luminaire modules per output circuit, various messages



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After the read-in procedure in the sub menu "LUMINAIRES AUTOMATIC" is ended the following view is called up automatically, if the addressing type ID was selected.

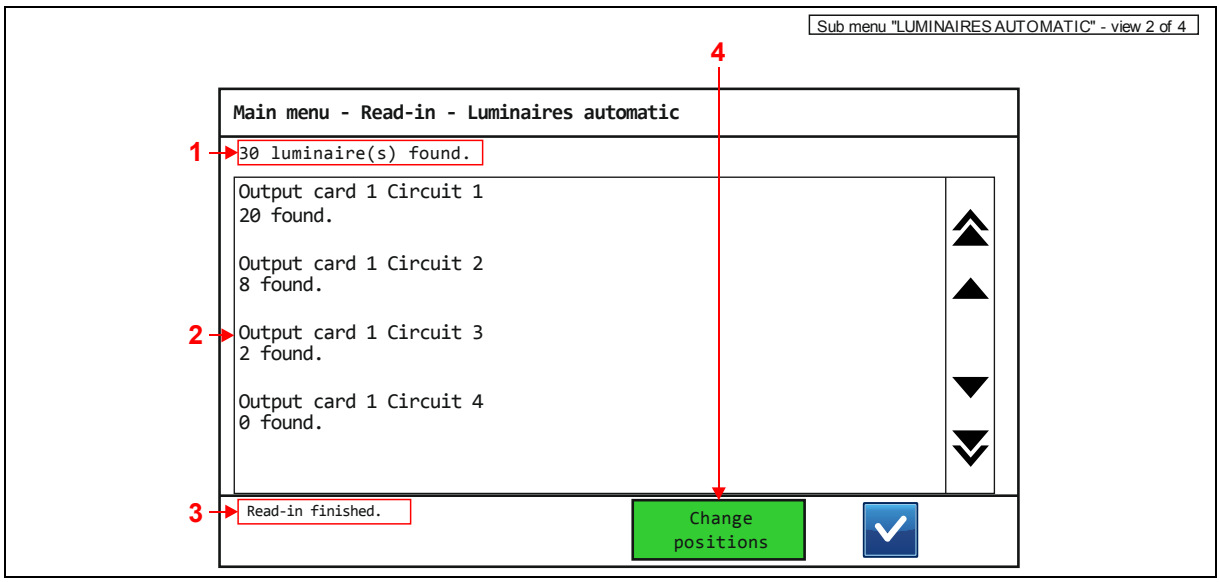
View – 2 of 4:

"1": text field – quantity of the read in luminaire modules on the respective emergency light station

"2": text field – quantity of the read in luminaire modules per output circuit, various messages

"3": text field – status of the read-in procedure

"4": button field – call-up of the view for changing of the luminaire positions



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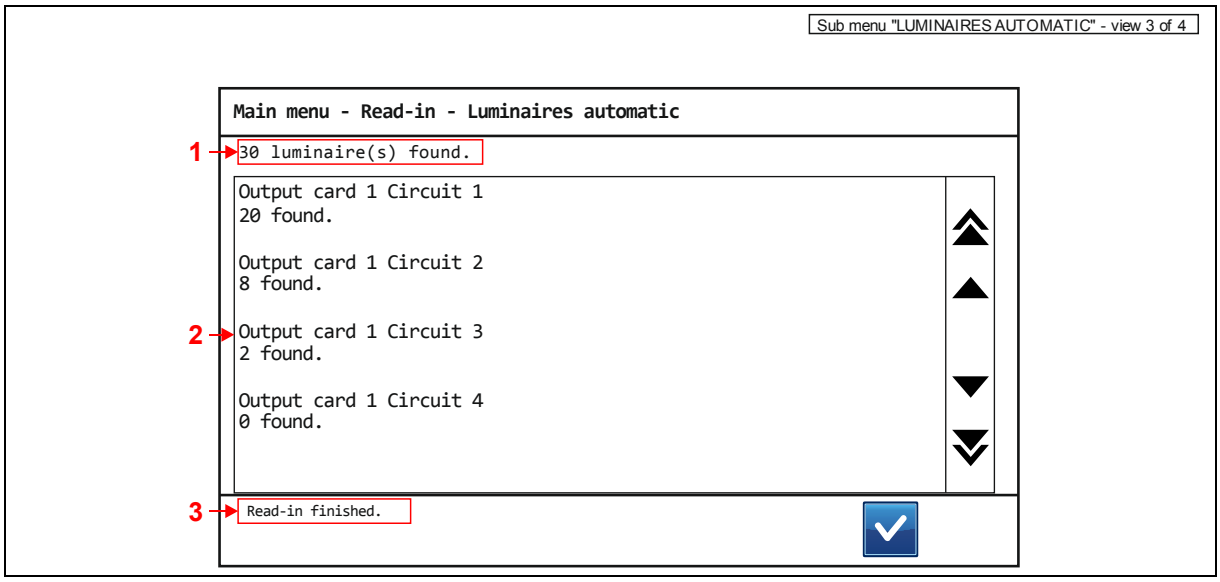
After the read-in procedure in the sub menu "LUMINAIRES AUTOMATIC" is ended the following view is called up automatically, if the addressing type Rotary was selected.

View – 3 of 4:

"1": text field – quantity of the read in luminaire modules on the respective emergency light station

"2": text field – quantity of the read in luminaire modules per output circuit, various messages

"3": text field – status of the read-in procedure



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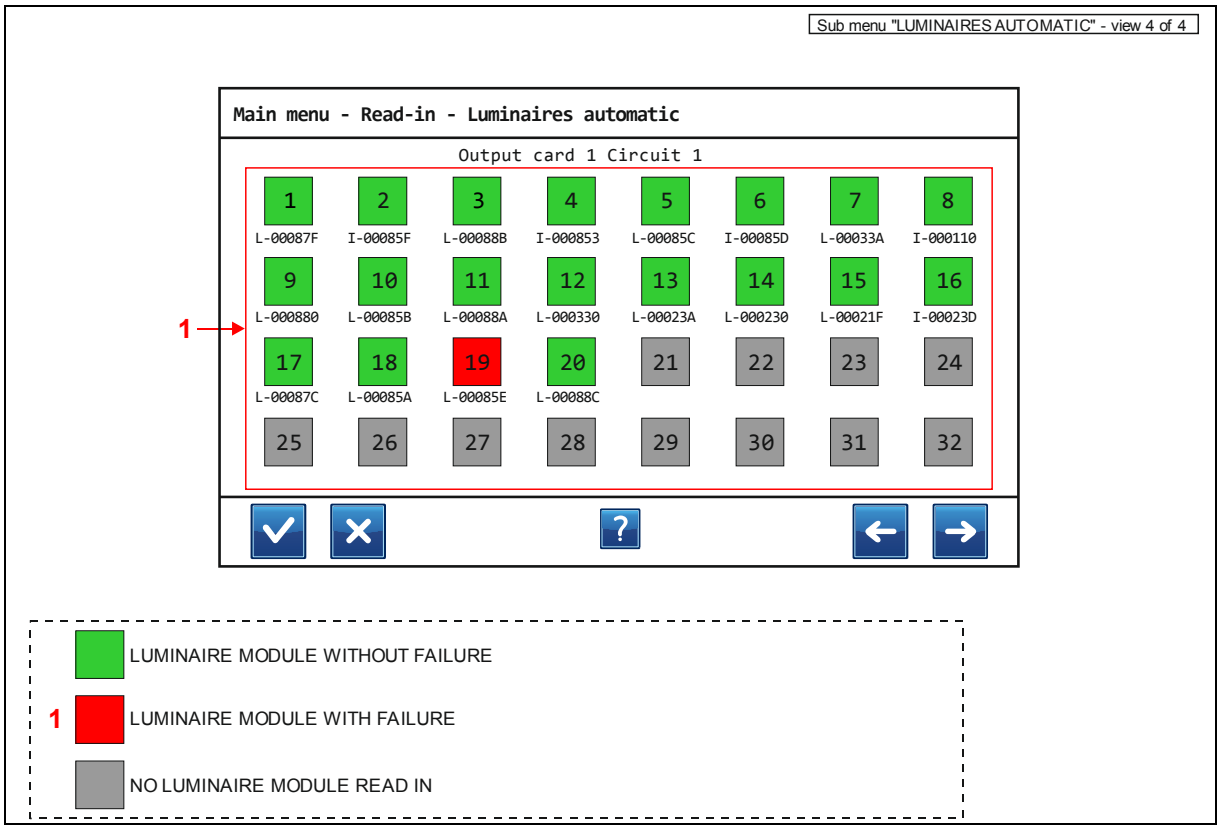
An actuation of the button field "4" regarding the view 2 of 4 calls up the following view in the sub menu "LUMINAIRES AUTOMATIC".

View – 4 of 4:

"1": button fields with optical indications – indication of module address, assignment sign and ID number of the respective luminaire module,
actuation of a button field:
indication of the failure status for the respective luminaire module,
hold actuation of a button field:
selection of the first luminaire module with the luminaire position that has to be changed,
drag actuation of a button field and drop on another button field:
selection of the second luminaire module with the luminaire position that has to be changed



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1-5-2 "LUMINAIRES MANUAL"

In the sub menu "LUMINAIRES MANUAL" a manual read-in of all connected luminaire modules regarding the respective output circuit can be executed. At this procedure the operating system switches on the output circuit with the respective battery output voltage and saves the read in data in the device configuration. At already read in luminaire modules the luminaire positions can be changed manually, if the addressing type ID was selected.

> A maximum of 32 luminaire modules can be connected over the powerline bus per output circuit on an emergency light station.

"1": button field with multiple selection – selection of the output circuit

"2": button field with optical indication – execution of the manual read-in for all luminaire modules on the selected output circuit,
actuation of the green area: execute read-in,
actuation of the red area: end read-in

"3": button field with optical indication – call-up of the view for changing of the luminaire positions at selected addressing type ID,
actuation of the green area: activate view for changing of the luminaire positions,
actuation of the red area: deactivate view for changing of the luminaire positions

"4": button fields with optical indications – indication of module address, assignment sign and ID number of the respective luminaire module,
actuation of a button field:
indication of the failure status for the respective luminaire module,
hold actuation of a button field:
selection of the first luminaire module with the luminaire position that has to be changed,
drag actuation of a button field and drop on another button field:
selection of the second luminaire module with the luminaire position that has to be changed

► "Output card:":
button field – input of the card address (1 - 63) for selection of the output card

► "ID:":
text field – indication of the ID number for the respective output card

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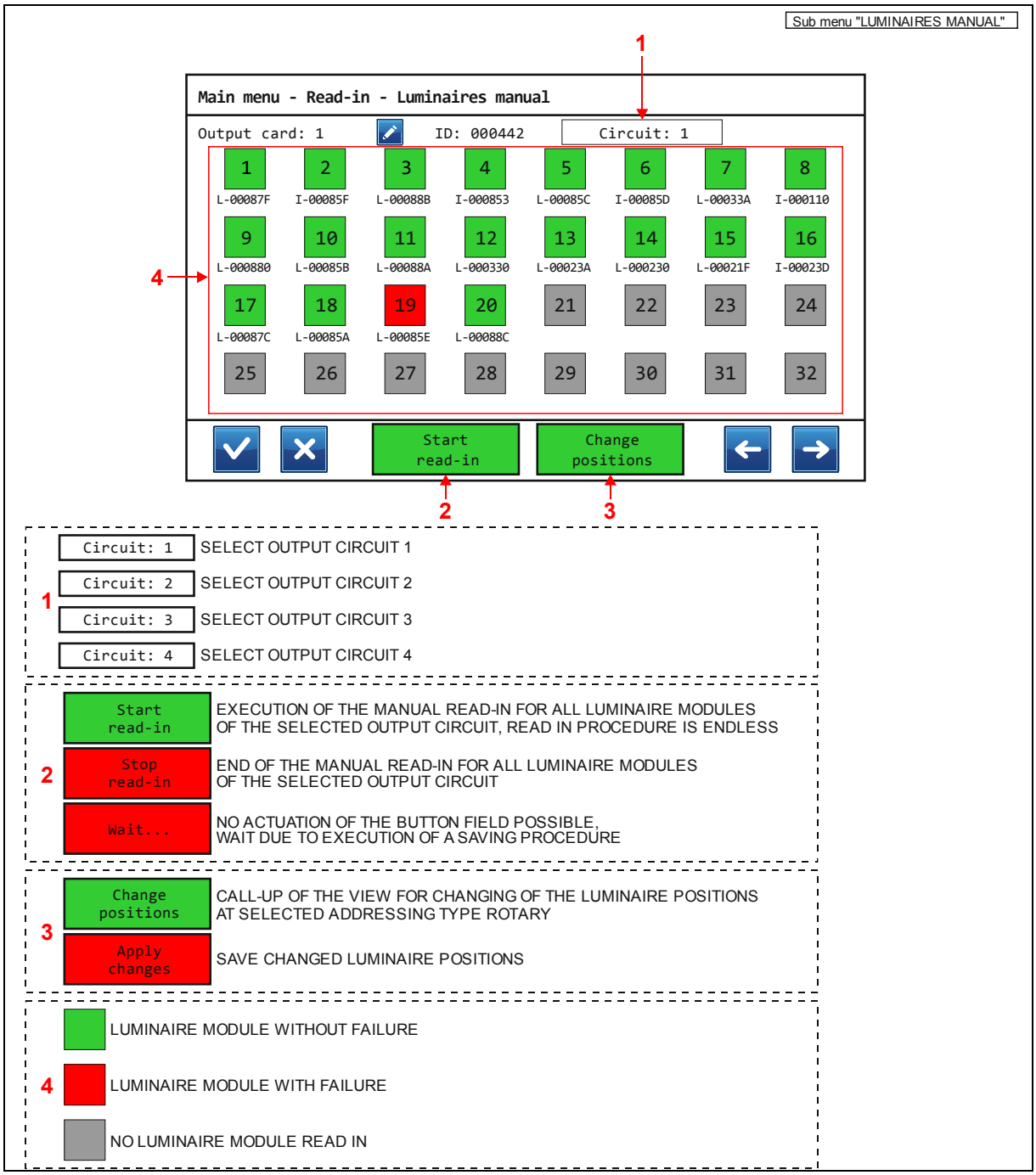

Note:

The button fields regarding "4" can only be actuated in the view for changing of the luminaire positions.

The manual read in of all luminaire modules is executed endlessly. Only an actuation of the button field "2" ends the manual read-in of all luminaire modules.

The call-up of the view for changing of the luminaire positions is only possible, if the addressing type ID was selected.

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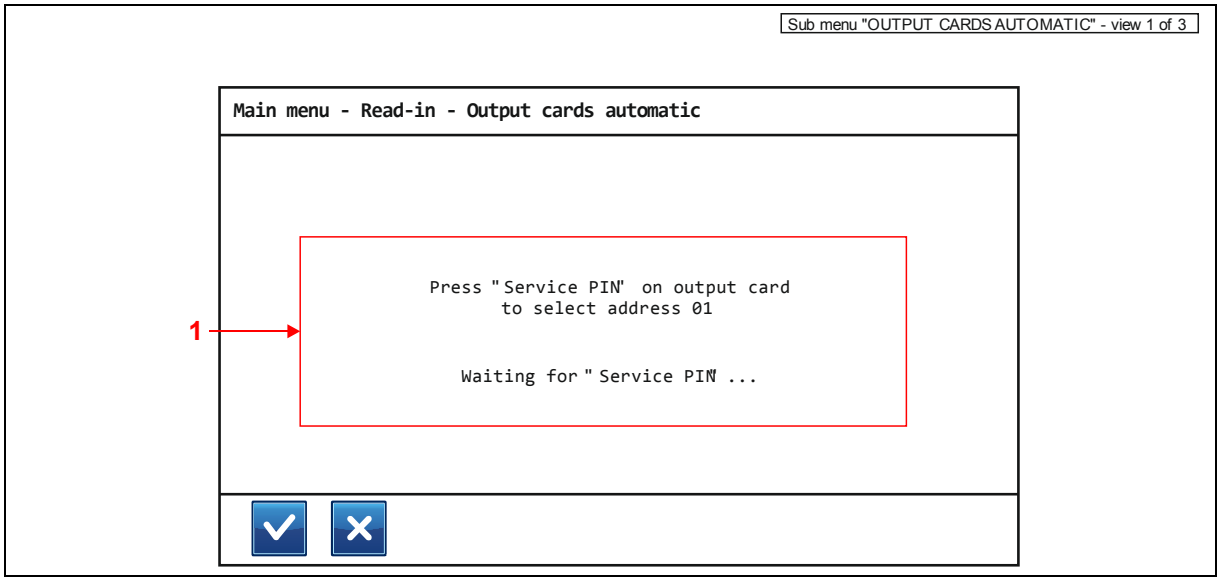
1-5-3 "OUTPUT CARDS AUTOMATIC"

An actuation of the button field "OUTPUT CARDS AUTOMATIC" executes a partly automatic read-in of all connected (internal) output cards and switchover cards regarding the respective emergency light station. At this procedure the operating system activates the cards sequentially by a manual actuation of the button "Service PIN" on the respective card and saves the read in data in the device configuration.

> A maximum of 63 (internal) output cards / switchover cards can be connected over the bus to an emergency light station.

View – 1 of 3:

"1": text field – input prompt for actuation of the button "Service PIN" on the card which should be read in with the card address 1



Note: **An actuation of the button field ends the read-in prematurely.**

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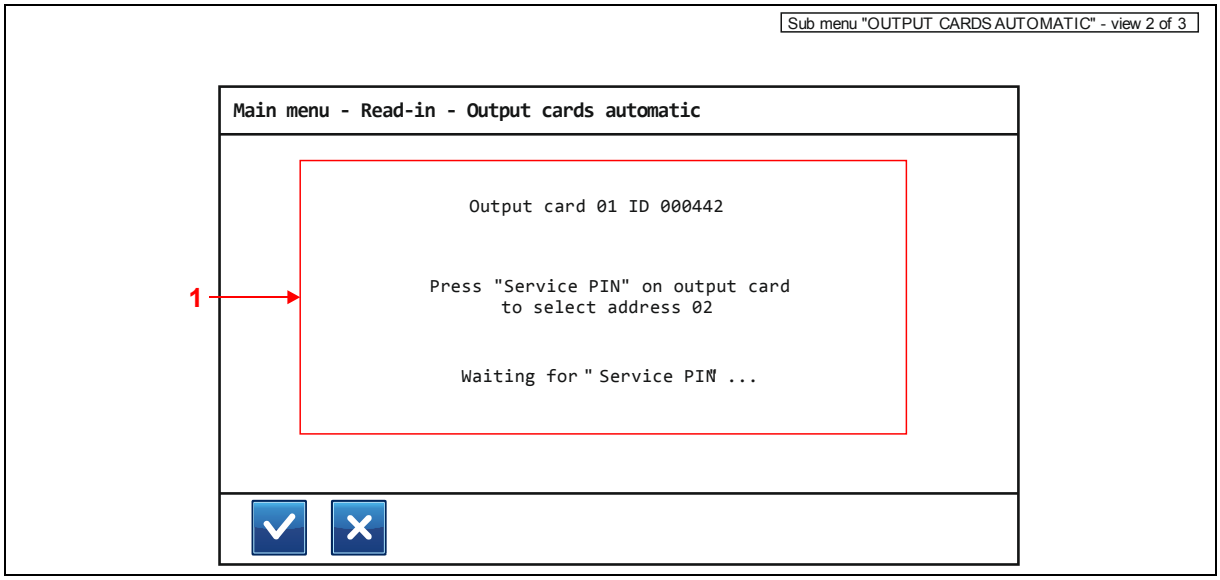
An actuation of the button "Service PIN" on the card, which should be read in with the card address 1, calls up the following view in the sub menu "OUTPUT CARDS AUTOMATIC".

View – 2 of 3:

"1": text field – indication of the previously read in card
with card address and ID number,
input prompt for actuation of the button "Service PIN" on the card which should be read in with the card address 2



Note: **An actuation of the button field ☒ ends the read-in prematurely.**

After the last card was read in with the respective card address the button field ☑ must be actuated to continue with the read in procedure.

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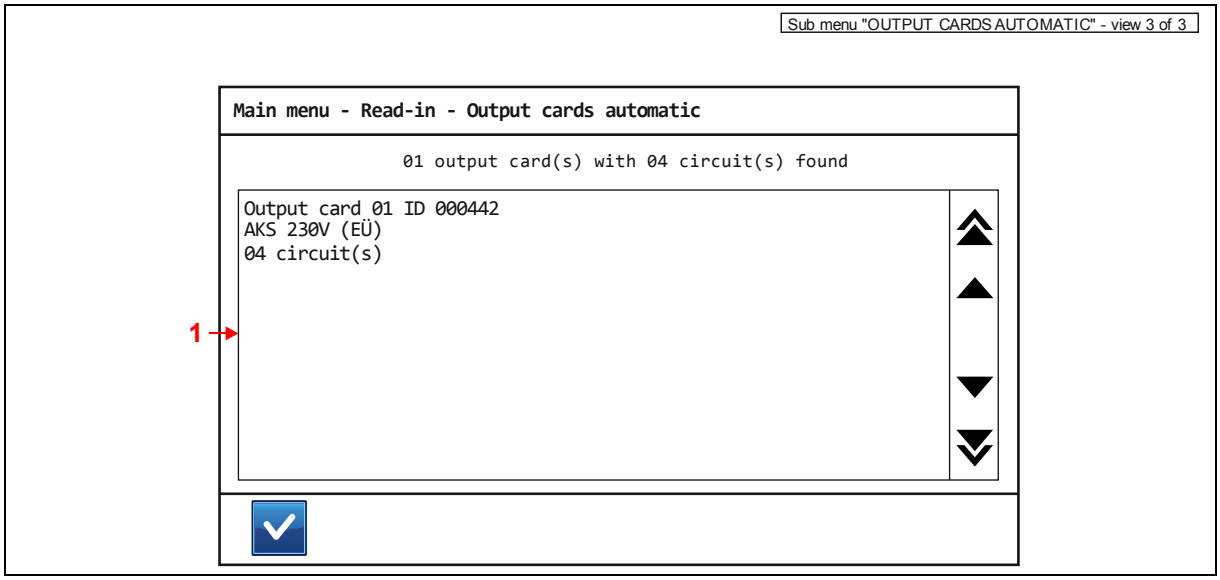
An actuation of the button field ☑ calls up the following view in the sub menu "OUTPUT CARDS AUTOMATIC".

View – 3 of 3:

"1": text field – indication of the read in cards
with card address, ID number, card type and the respective quantity of the output circuits at output cards



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1-5-4 "OUTPUT CARDS MANUAL"

In the sub menu "OUTPUT CARDS MANUAL" a manual read-in of all connected (internal) output cards and switchover cards regarding the respective emergency light station can be executed. At this procedure the operating system saves the manual read in data in the device configuration. At already read in cards the card addresses can be changed manually.

> A maximum of 63 (internal) output cards / switchover cards can be connected over the bus to an emergency light station.

SICURO-230Z:

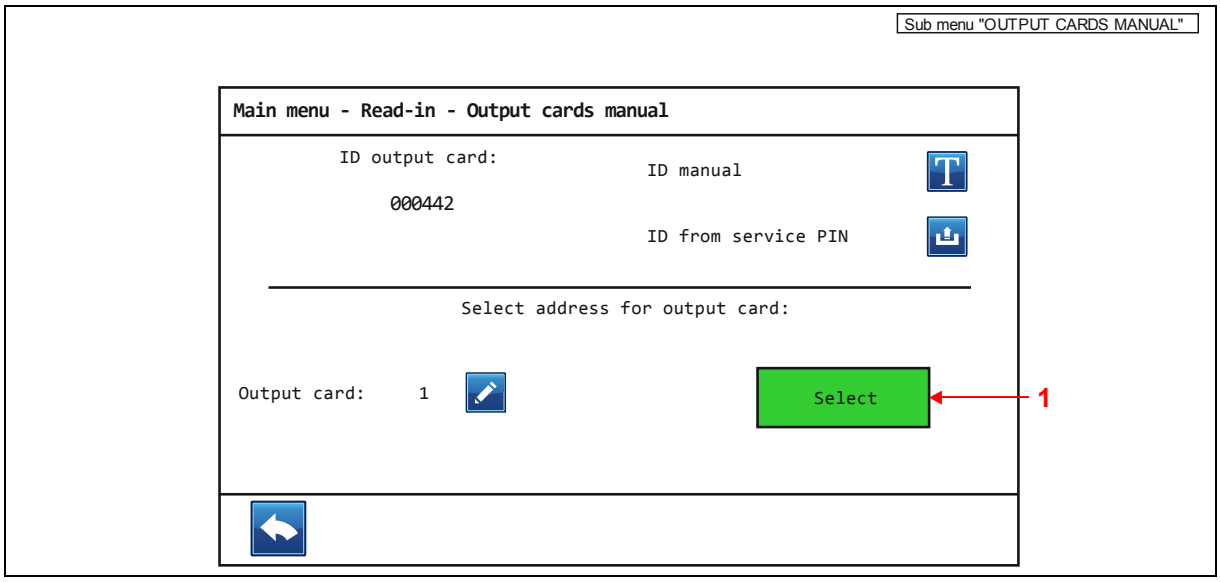
"1": button field – applying of the selected card address on the selected card

► "ID output card:":
text field – indication of the ID number for the selected card

► "ID output card:" ► "ID manual":
button field – input of the ID number for selection of the card

► "ID output card:" ► "ID from service PIN":
button field – read-in of the ID number by a manual actuation of the button "Service PIN" for selection of the card

► "Select address for output card:" ► "Output card:":
button field – input of the card address (1 - 63)



SICURO-24Z and SICURO-24G:

The sub menu "OUTPUT CARDS MANUAL" is not available at SICURO-24Z and SICURO-24G systems.

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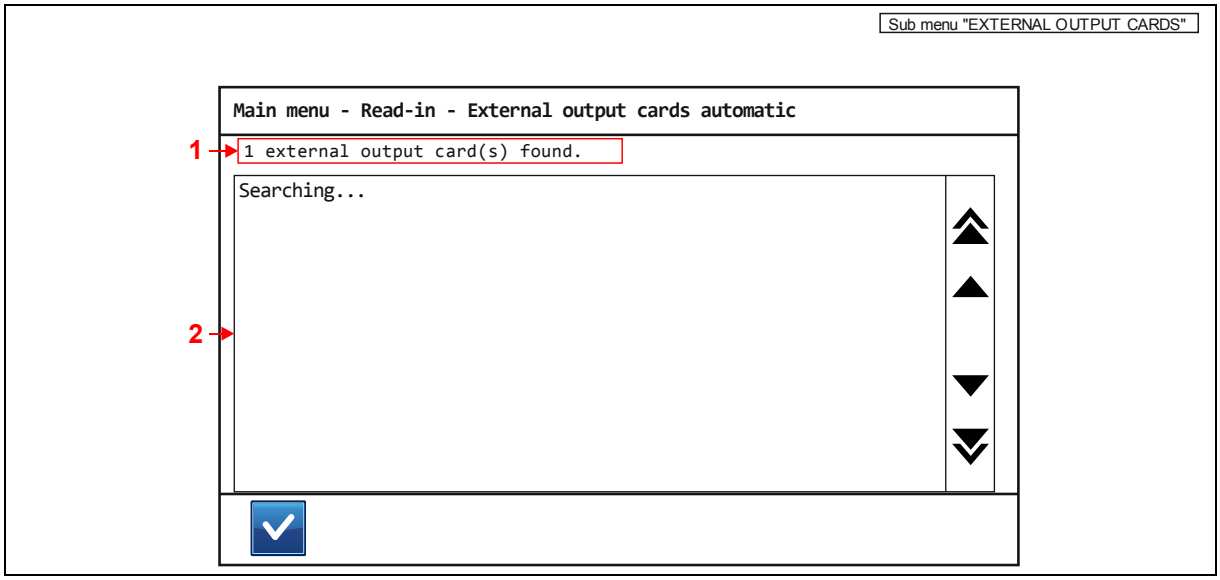
1-5-5 "EXTERNAL OUTPUT CARDS" – SICURO-230Z

An actuation of the button field "EXTERNAL OUTPUT CARDS" executes an automatic read-in of all connected external output cards regarding the respective emergency light station. At this procedure the operating system validates connections over the station buses (RS485) and saves the read in data in the device configuration.

> A maximum of 32 external output cards / sub stations can be connected over the sub station bus to an emergency light station.

"1": text field – quantity of the read in external output cards

"2": text field – single read-in phases, read-in results, various messages



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1-5-5 "INTERNAL MODULES" – SICURO-24Z / SICURO-24G

The sub menu "INTERNAL MODULES" is not available in the described software versions.

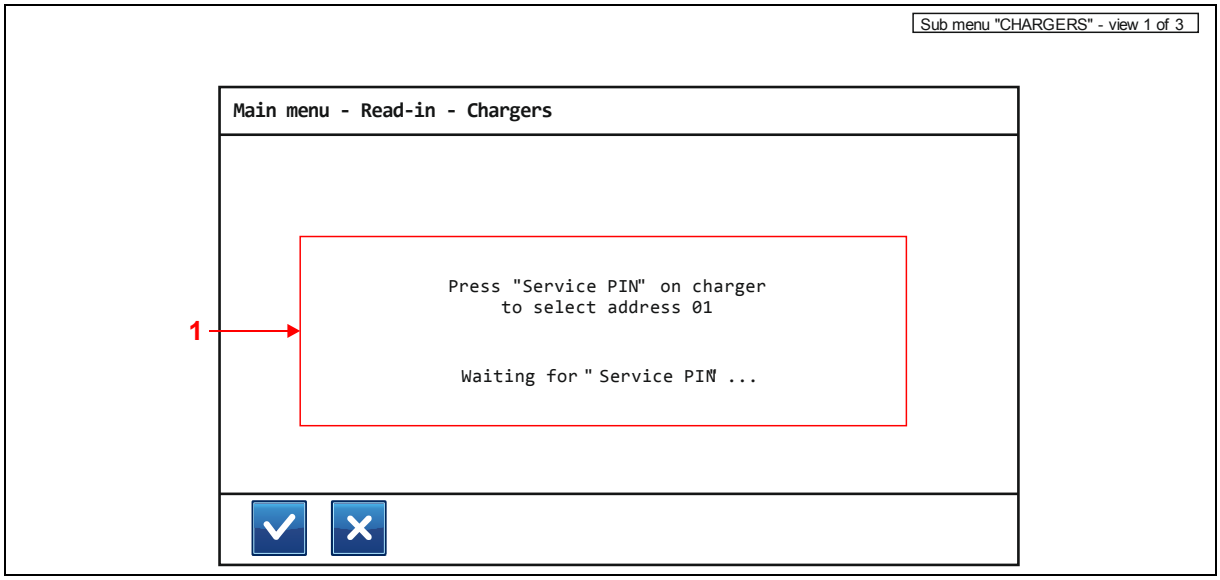
1-5-6 "CHARGERS" – SICURO-230Z

An actuation of the button field "CHARGERS" executes a partly automatic read-in of all connected charger cards regarding the respective emergency light station. At this procedure the operating system activates the charger cards sequentially by a manual actuation of the button "Service PIN" on the respective charger card and saves the read in data in the device configuration.

> A maximum of 30 charger cards can be connected over the bus to an emergency light station.

View – 1 of 3:

"1": text field – input prompt for actuation of the button "Service PIN" on the charger card which should be read in with the card address 1



Note: **An actuation of the button field ends the read-in prematurely.**

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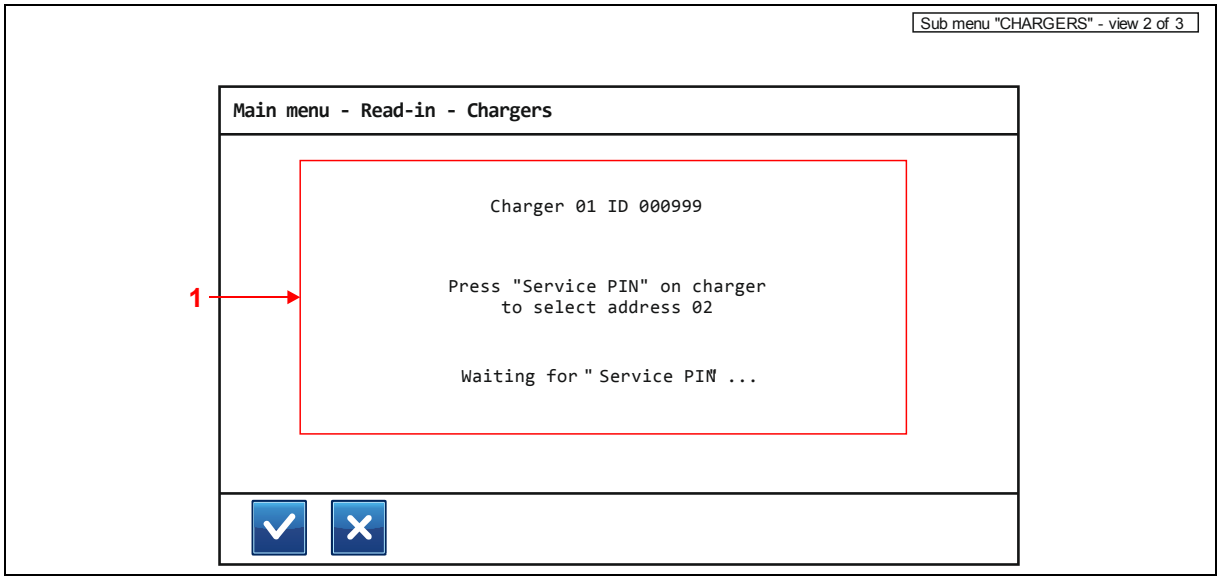
An actuation of the button "Service PIN" on the charger card, which should be read in with the card address 1, calls up the following view in the sub menu "CHARGERS".

View – 2 of 3:

"1": text field – indication of the previously read in charger card
with card address and ID number,
input prompt for actuation of the button "Service PIN" on the charger card which should be read in with the card address 2



Note: **An actuation of the button field ☒ ends the read-in prematurely.**

After the last charger card was read in with the respective card address the button field ☑ must be actuated to continue with the read in procedure.

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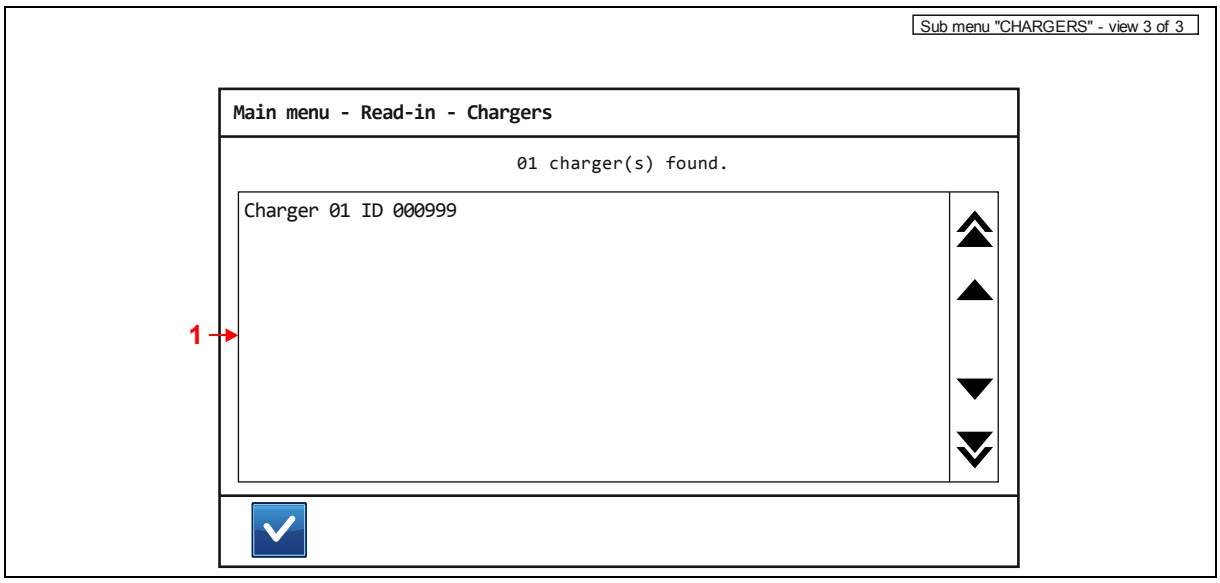
An actuation of the button field ☑ calls up the following view in the sub menu "CHARGERS".

View – 3 of 3:

"1": text field – indication of the read in charger cards
with card address and ID number



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1-5-6 "EXTERNAL MODULES" – SICURO-24Z / SICURO-24G

The sub menu "EXTERNAL MODULES" is not available in the described software versions.

1-5-7 "STATIONS"

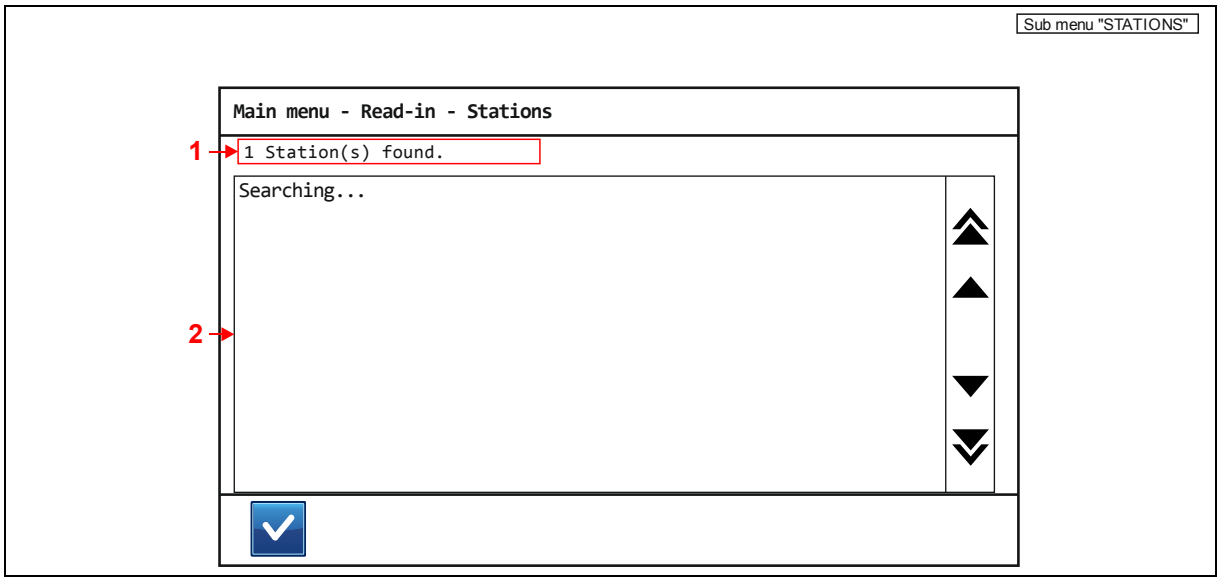
This device function is only available on a main station.

An actuation of the button field "STATIONS" executes an automatic read-in of all connected sub stations regarding the respective main station. At this procedure the operating system validates connections over the station buses (RS485) resp. over the network (LAN) and saves the read in data in the device configuration.

> A maximum of 32 sub stations / external output cards can be connected over the sub station bus to a main station.

"1": text field – quantity of the read in emergency light stations

"2": text field – single read-in phases, read-in results, various messages



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1-6 "FUNCTION TEST"

In the sub menu "FUNCTION TEST" a function test can be executed manually on various equipment. All details regarding a test result are protocolled and can be indicated over the sub menu "TEST RESULTS" (see sub menu 1-10). If a test result was failure-prone, then this will be indicated over the optical indication for collective fault (red) as well as over the button field "INFORMATION" (collective fault red) on the EVA unit. In the operating menu text fields for additional information are indicating further details.

The functions of the following equipment are tested by a function test:
- output cards
- luminaire modules on output circuits of the monitoring type EÜ
- electrical loads of equipment on output circuits of the monitoring type SÜ
- emergency light stations

Attention: **SICURO-230Z: Every executed function test includes in conclusion an insulation test of the battery supply and the output circuits if the insulation test was activated in the sub menu "SERVICE".**

Note: **An actuation of the button field ☒ ends the function test prematurely. Through this the test result is rated as failure-prone. The subsequent failure messages on the EVA unit can only be reset with a failure-free function test.**

SICURO-230Z – main station and sub station:

View – 1 of 4:

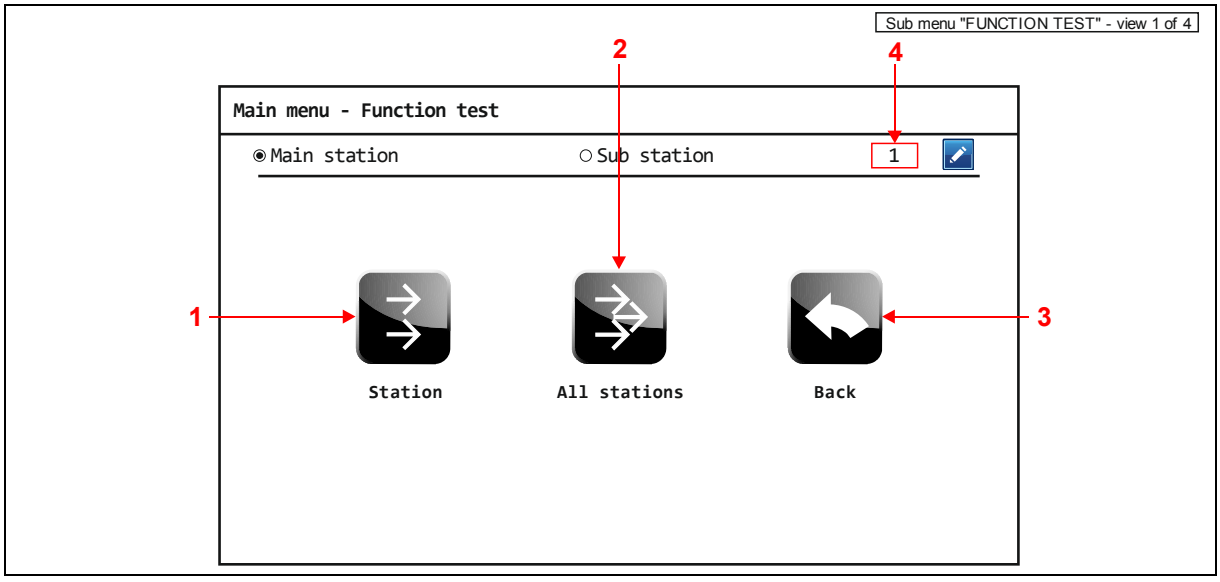
"1": button field – execution of a manual function test regarding the selected emergency light station

"2": button field – execution of a manual function test regarding all emergency light stations, device function is only available on a main station

"3": button field – leave sub menu "FUNCTION TEST"

"4": button field – input of the station address (main station: 1 - 128, sub station: 1 - 32)

► "Main station" / "Sub station":
button fields – selection of the station type, selection is only available on a main station



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SICURO-24Z – sub station,
SICURO-24G – main station:

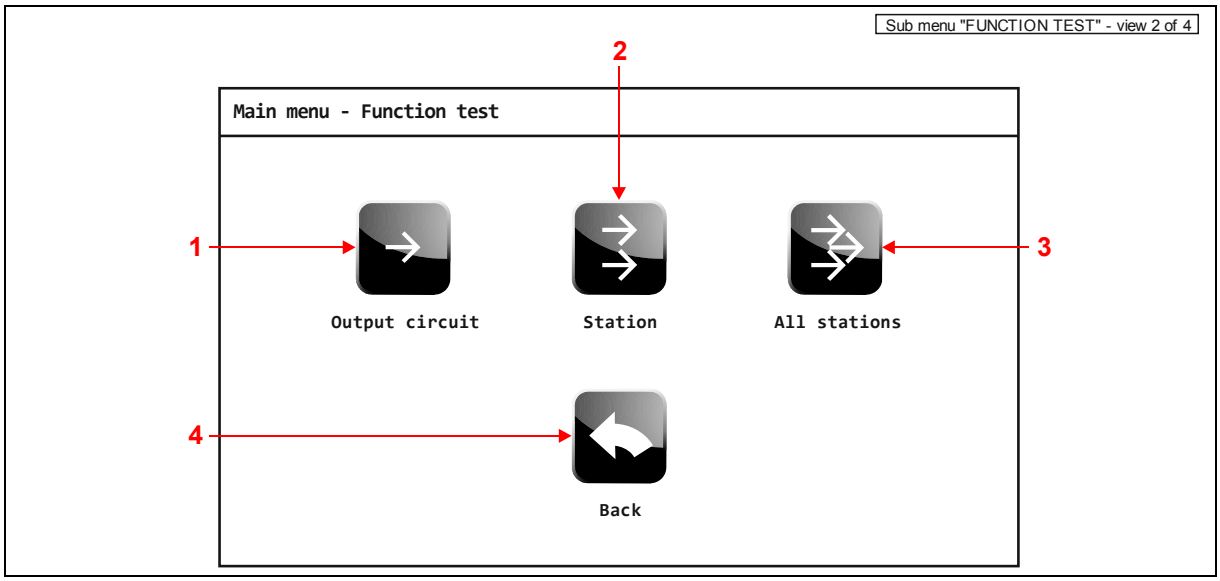
View – 2 of 4:

"1": button field – the device function "Output circuit" is not available in the described software versions

"2": button field – execution of a manual function test regarding the respective emergency light station

"3": button field – the device function "All stations" is not available in the described software versions

"4": button field – leave sub menu "FUNCTION TEST"



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SICURO-230Z – main station and sub station,
SICURO-24Z – sub station,
SICURO-24G – main station:

An actuation of the button field "1" regarding the view 1 of 4 and an actuation of the button field "2" regarding the view 2 of 4 calls up the following view and executes a manual function test in the sub menu "FUNCTION TEST". At this test the operating system switches on all output circuits of the respective emergency light station with the respective battery output voltage and compares the collected data with the device configuration. Failure messages on the EVA unit are indicating discrepancies.

View – 3 of 4:

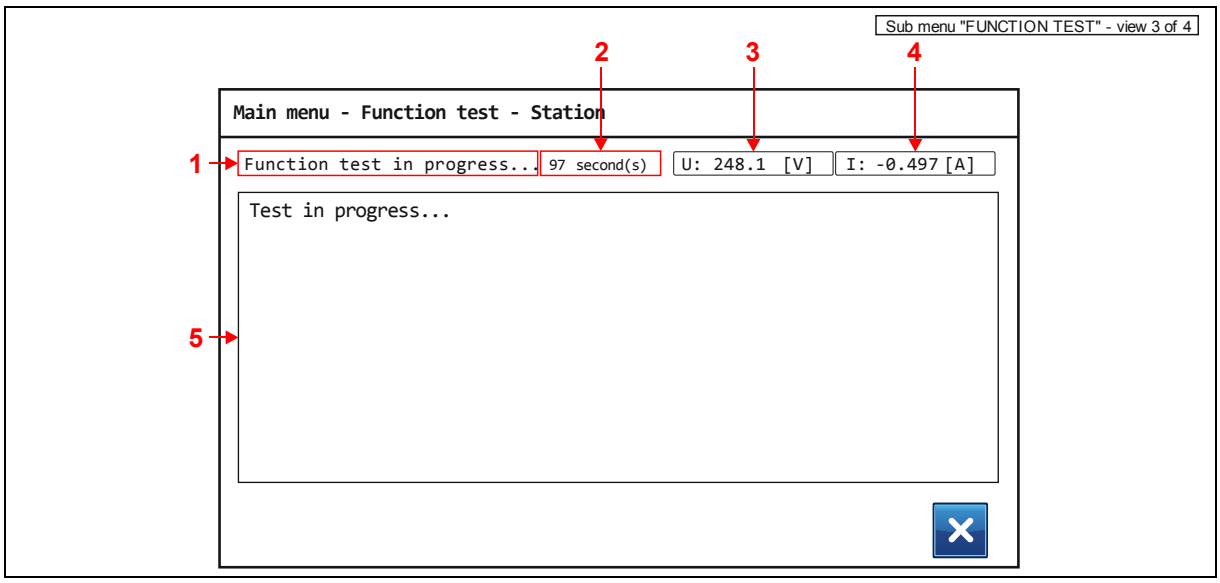
"1": text field – status of the test procedure

"2": text field – elapsed test time

"3": text field – voltage of the battery supply

"4": text field – discharge current of the battery supply

"5": text field – single test phases, test results, various messages



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An actuation of the button field "2" regarding the view 1 of 4 calls up the following view and executes a manual function test in the sub menu "FUNCTION TEST". At this test the operating system switches on all output circuits of the respective main station and the associated sub stations with the respective battery output voltage and compares the collected data with the device configuration. Failure messages on the EVA unit are indicating discrepancies.

View – 4 of 4:

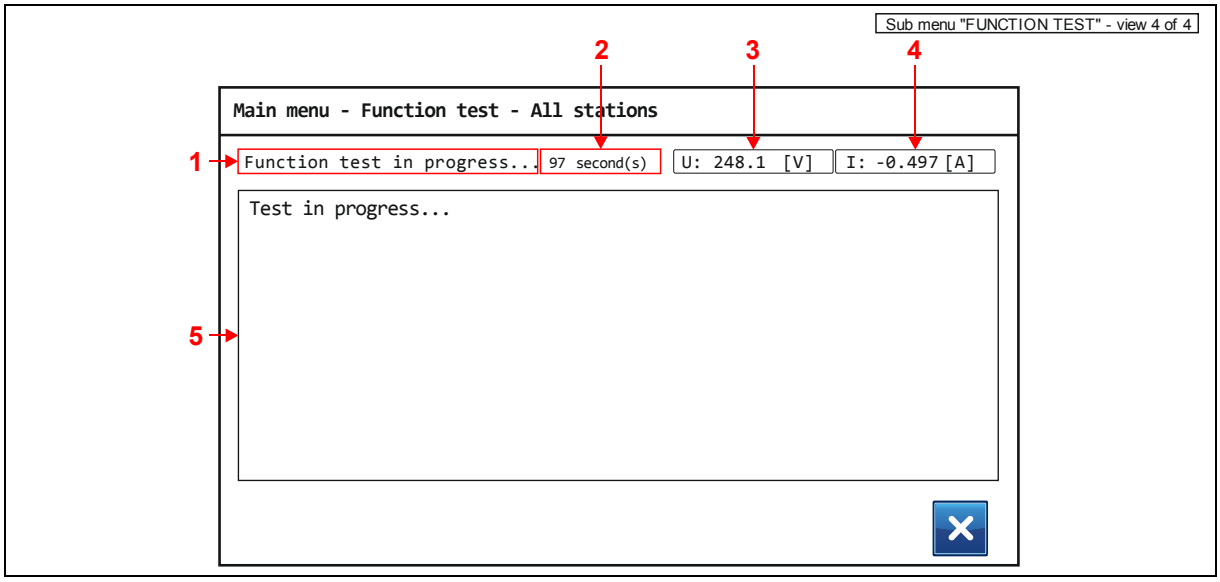
"1": text field – status of the test procedure

"2": text field – elapsed test time

"3": text field – voltage of the battery supply

"4": text field – discharge current of the battery supply

"5": text field – single test phases, test results, various messages



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1-7 "DURATION TEST"

This device function is only available on a main station.

In the sub menu "DURATION TEST" a duration test of the battery supply regarding the emergency duration can be executed manually. All details regarding a test result are protocolled and can be indicated over the sub menu "TEST RESULTS" (see sub menu 1-10). If a test result was failure-prone, then this will be indicated over the optical indication for collective fault (red) as well as over the button field "INFORMATION" (collective fault red) on the EVA unit. In the operating menu text fields for additional information are indicating further details.

Attention: **Every executed duration test includes a function test in advance. Defective luminaires are affecting the test result of the duration test regarding the emergency duration.**

Note: **An actuation of the button field ends the duration test prematurely. Through this the test result is rated as failure-prone. The subsequent failure messages on the EVA unit can only be reset with a failure-free duration test. The device function for the duration test substitutes no maintenance according to EN 50172.**

An actuation of the button field "DURATION TEST" executes a manual duration test. At this test the operating system switches on all output circuits of the respective main station and the associated sub stations with the respective battery output voltage and compares the collected data with the device configuration. Failure messages on the EVA unit are indicating discrepancies.

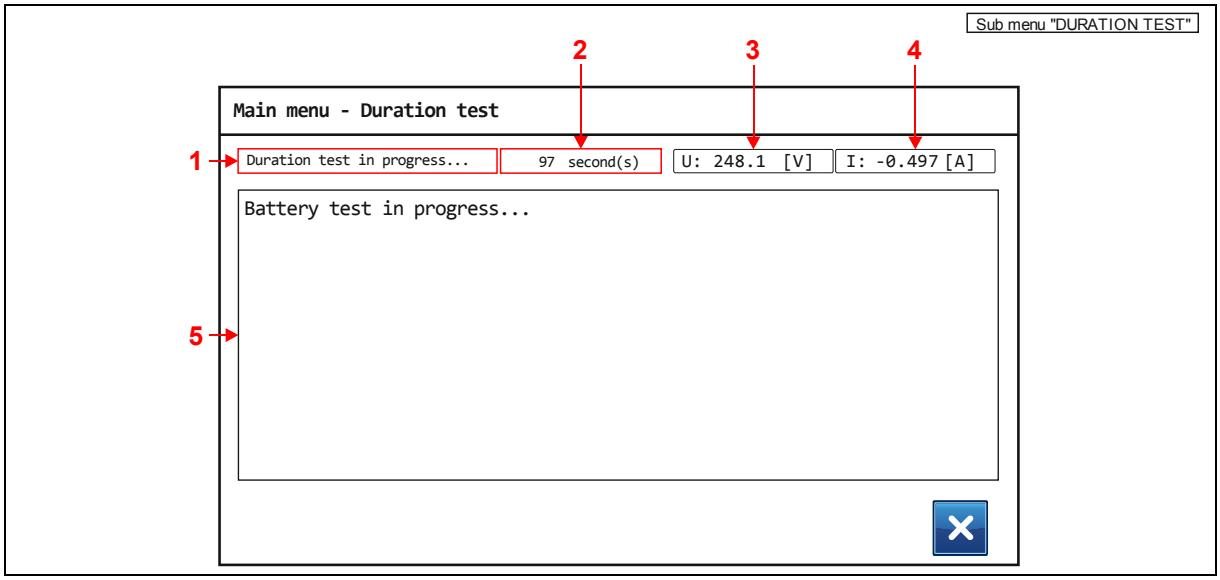
"1": text field – status of the test procedure

"2": text field – remaining test time

"3": text field – voltage of the battery supply

"4": text field – discharge current of the battery supply

"5": text field – single test phases, test results, various messages



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1-8 "INSULATION TEST"

This device function is only available on a main station of a SICURO-230Z system.

In the sub menu "INSULATION TEST" an insulation test can be executed manually on various equipment. All details regarding a test result are protocolled and can be indicated over the sub menu "TEST RESULTS" (see sub menu 1-10). If a test result was failure-prone, then this will be indicated over the optical indication for collective fault (red) as well as over the button field "INFORMATION" (collective fault red) on the EVA unit. In the operating menu text fields for additional information are indicating further details.

The insulation resistances of the following equipment are tested by an insulation test:

- battery supply
- output circuits

Note: **An actuation of the button field ⊠ ends the insulation test prematurely. Through this the test result is rated as failure-prone. The subsequent failure messages on the EVA unit can only be reset with a failure-free insulation test of the respective equipment.**

Note: **In the sub menu "SERVICE" the device function for the insulation test can be activated, deactivated and configured. During the automatic operation and manual operation the operating system executes an insulation test in intervals regarding the battery supply, if the device function for the insulation test is activated. The interval time is configurable in the sub menu "SERVICE".**

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View – 1 of 3:

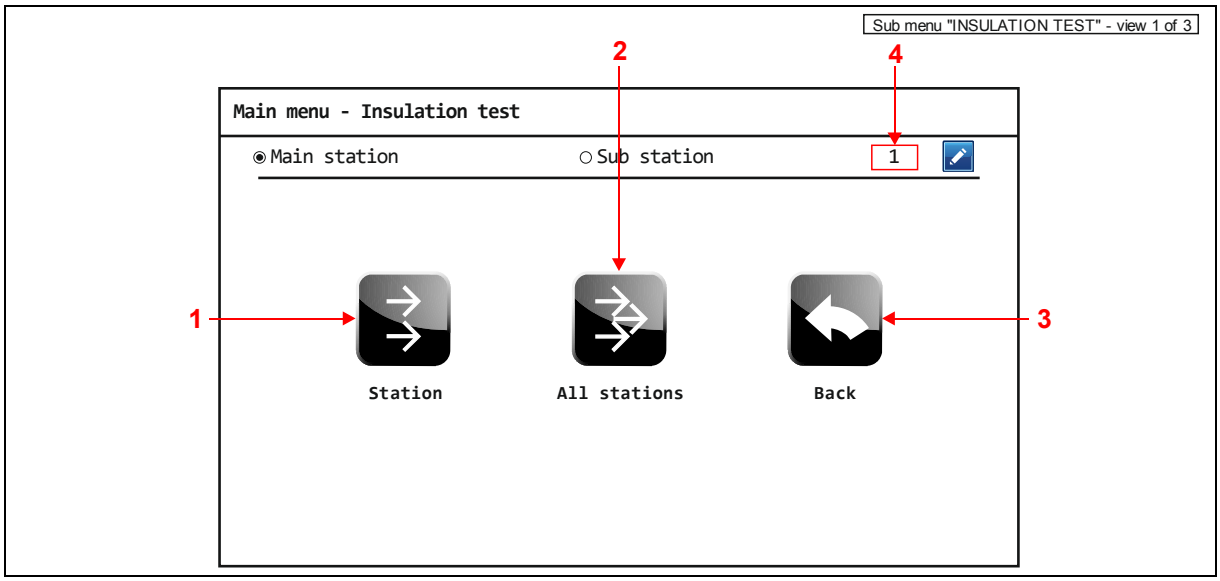
"1": button field – execution of a manual insulation test regarding the selected emergency light station

"2": button field – execution of a manual insulation test regarding all emergency light stations

"3": button field – leave sub menu "INSULATION TEST"

"4": button field – input of the station address (main station: 1 - 128, sub station: 1 - 32)

► "Main station" / "Sub station":
button fields – selection of the station type



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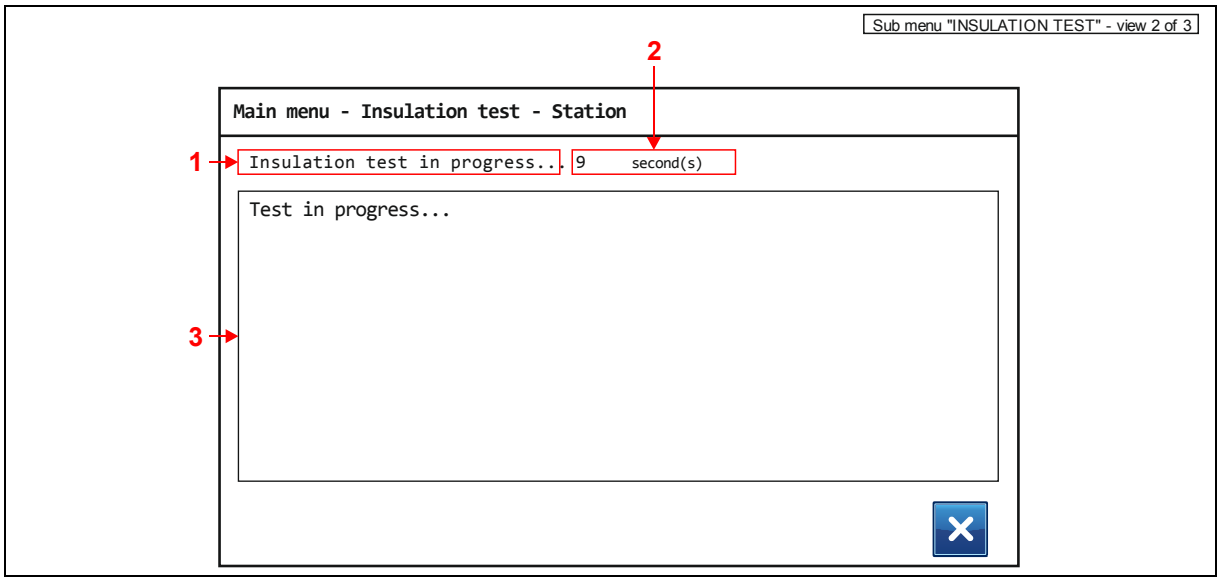
An actuation of the button field "1" regarding the view 1 of 3 calls up the following view and executes a manual insulation test in the sub menu "INSULATION TEST". At this test the operating system switches on all output circuits of the respective emergency light station with the respective battery output voltage and compares the collected data with the device configuration. Failure messages on the EVA unit are indicating discrepancies.

View – 2 of 3:

"1": text field – status of the test procedure

"2": text field – elapsed test time

"3": text field – single test phases, test results, various messages



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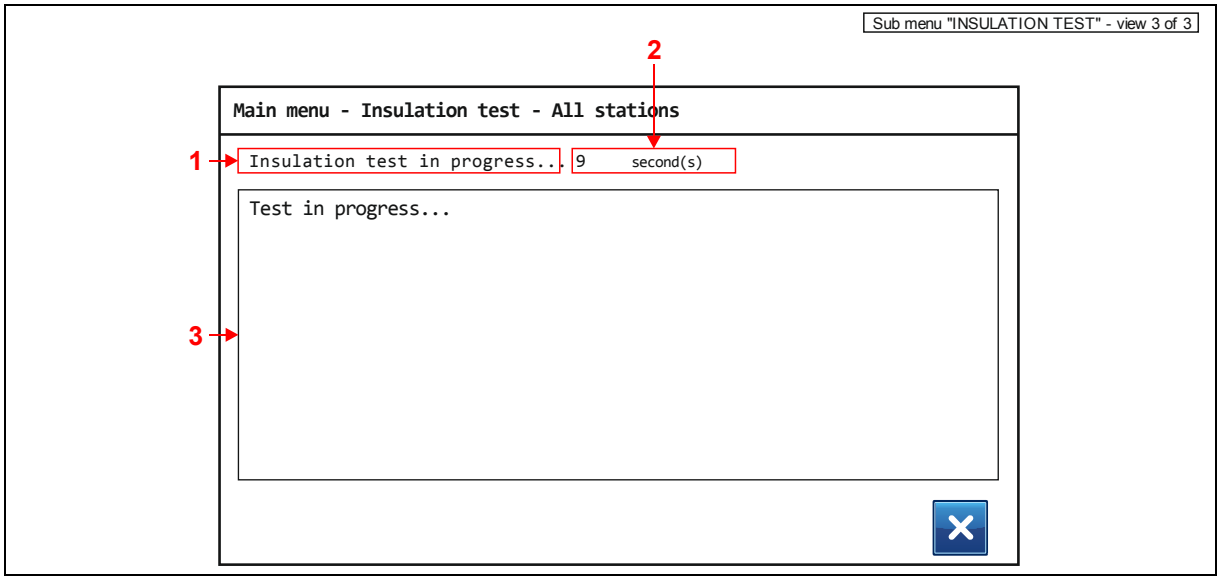
An actuation of the button field "2" regarding the view 1 of 3 calls up the following view and executes a manual insulation test in the sub menu "INSULATION TEST". At this test the operating system switches on all output circuits of the respective main station and the associated sub stations with the respective battery output voltage and compares the collected data with the device configuration. Failure messages on the EVA unit are indicating discrepancies.

View – 3 of 3:

"1": text field – status of the test procedure

"2": text field – elapsed test time

"3": text field – single test phases, test results, various messages



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1-9 "DEEP DISCHARGE TEST"

This device function is only available on a main station.

In the sub menu "DEEP DISCHARGE TEST" a deep discharge test of the battery supply regarding the function of the deep discharge protection can be executed. The test result is not protocolled. If a test result was rated with "deep discharge protection activated", then the simulated deep discharge protection is currently activated and with that the function over the operating system is present. This will be indicated over the optical indication for collective fault (red) as well as over the button field "INFORMATION" (collective fault and deep discharge red) on the EVA unit. In the operating menu text fields for additional information are indicating further details.

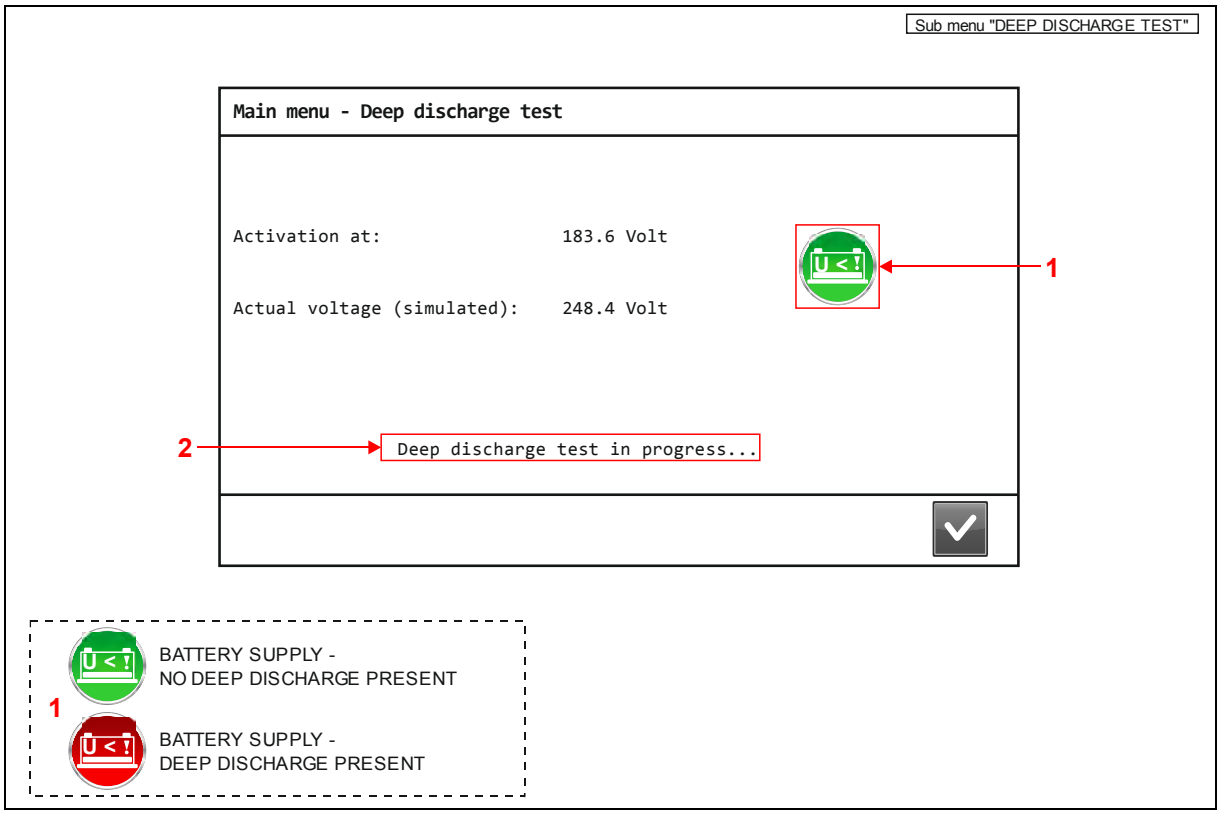
An actuation of the button field "DEEP DISCHARGE TEST" executes a manual deep discharge test. At this test the operating system switches on all output circuits of the respective main station with the respective battery output voltage and simulates a decreasing battery voltage which begins at the currently measured value of the battery voltage and ends at the switch-on value for the simulated deep discharge protection. At reached switch-on value for the simulated deep discharge protection only respective indications regarding the activation take place but no deactivation of the emergency operation with battery supply (battery operation – DC). After an ended deep discharge test the simulated deep discharge protection stays activated on the respective main station. An actuation of the button field "MAIN MENU" calls up an input prompt to execute a manual reset where the operating system deactivates the simulated deep discharge protection.

"1": optical indication – deep discharge

"2": text field – single test phases and test result

► "Activation at:":
text field – indication of the switch-on value for the deep discharge protection

► "Actual voltage (simulated):":
text field – indication of the simulated battery voltage (battery supply)



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1-10 "TEST RESULTS"

In the sub menu "TEST RESULTS" the detailed results of the manual and automatic function, duration and insulation tests as well as the daily events are managed. All data can be indicated, deleted and saved. For the save function commercial USB sticks can be used which must be inserted in the respective USB port on the EVA unit. USB sticks must be formatted in the file format FAT32.

View – 1 of 2:

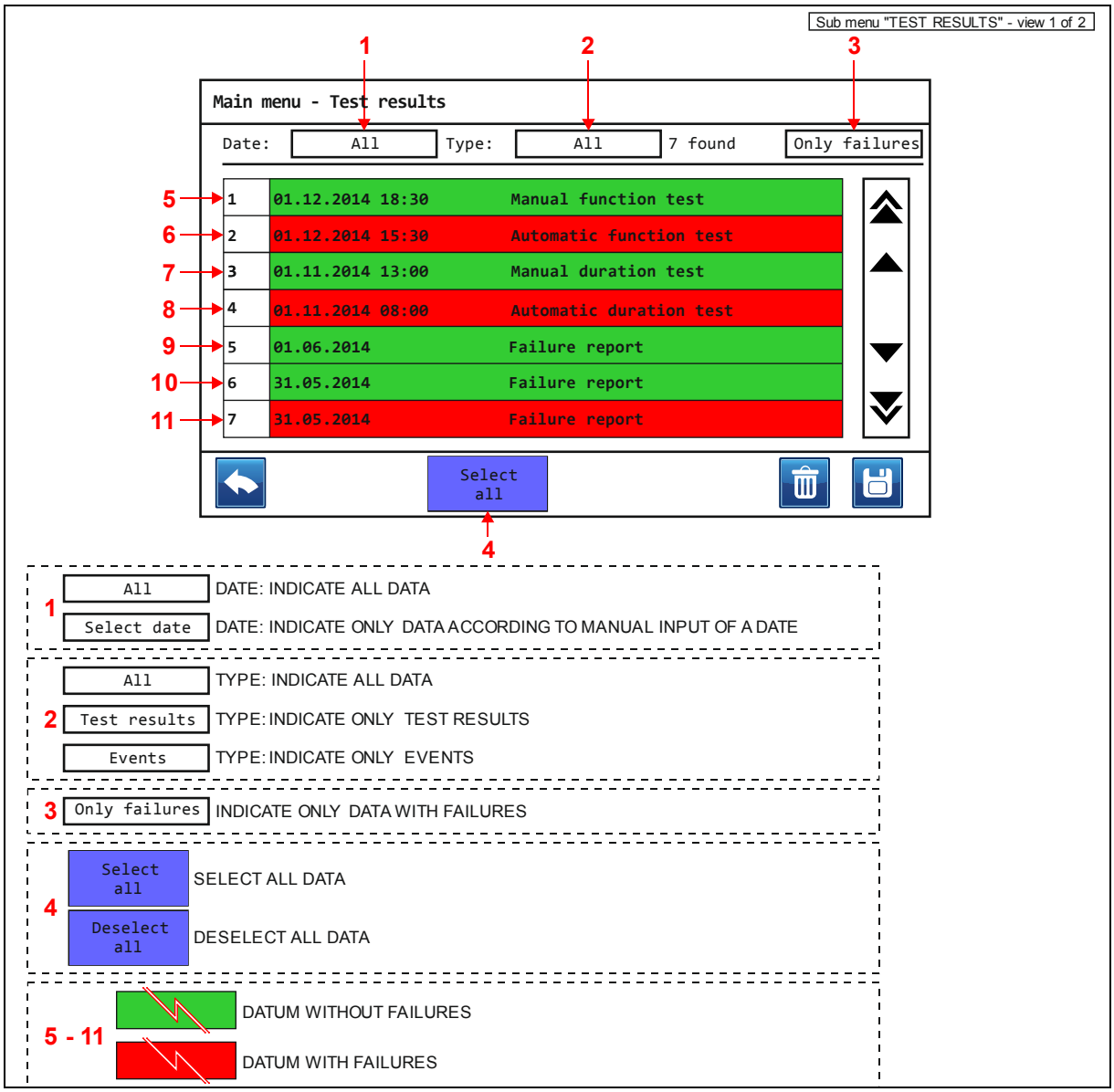
"1": button field with multiple selection – filtering by input of a date

"2": button field with multiple selection – filtering by selection of a data type

"3": button field – filtering by selection of data with failures

"4": button field – selection / deselection of all data

"5-11": button fields – actuation of the numbered area: selection / deselection of a datum, actuation of the green / red area: opening of a datum



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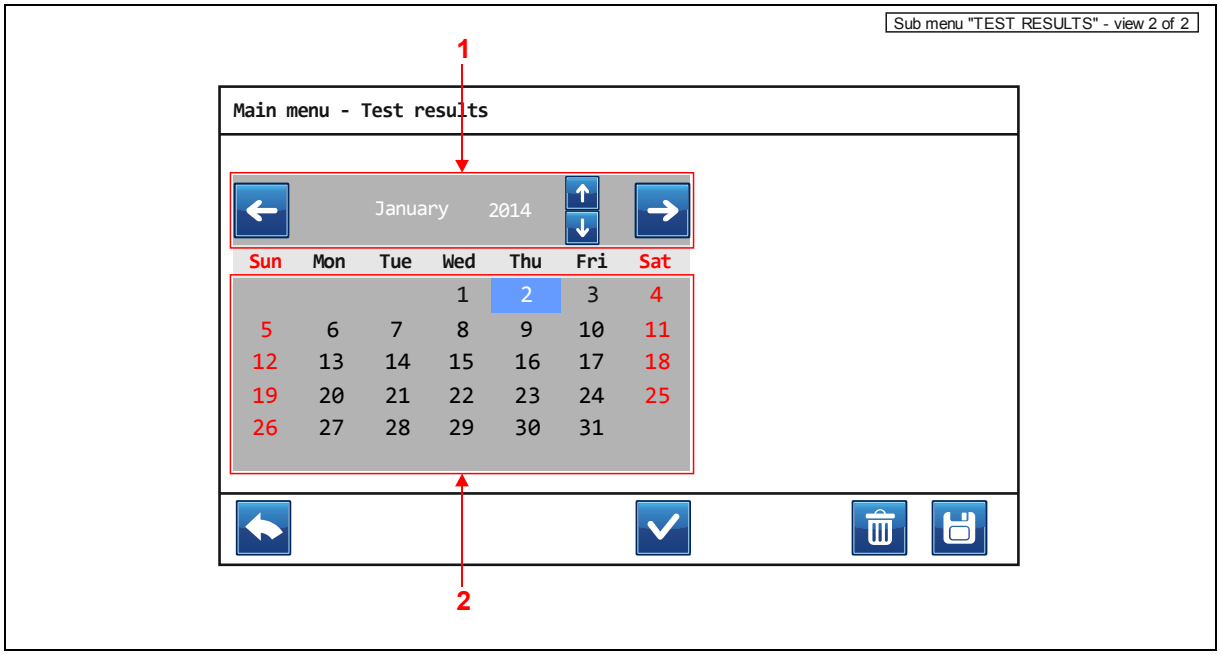
An actuation of the button field "1" regarding the selection "Select date" calls up the following view in the sub menu "TEST RESULTS".

View – 2 of 2:

"1": button fields – selection of a month and a year

"2": button fields – selection of a day,
blue area: selected day



Note: **To prevent data inconsistency it is necessary to delete also the respective data of the associated emergency light stations if test results or events of a single emergency light station were deleted.**

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1-11 "INFORMATION"

SICURO-230Z – main station:

In the sub menu "INFORMATION" general data regarding the respective emergency light station are indicated.

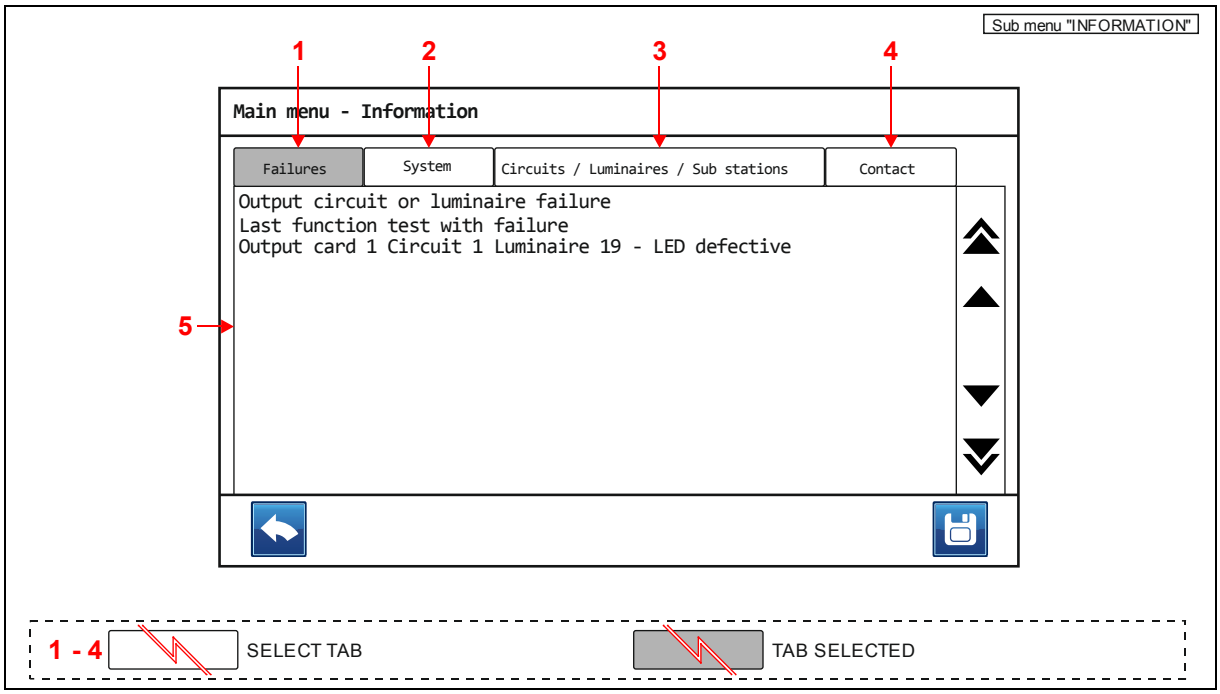
"1": button field with optical indication – selection of the tab "Failures"

"2": button field with optical indication – selection of the tab "System"

"3": button field with optical indication – selection of the tab "Circuits / Luminaires / Sub stations"

"4": button field with optical indication – selection of the tab "Contact"

"5": text field –
tab "Failures" selected:
indication of a summary of all current failures and necessary maintenances,
tab "System" selected:
indication of a summary of the system and test settings as well as software version of the operating system,
tab "Circuits / Luminaires / Sub stations" selected:
indication of a summary of the read in cards, luminaires modules and sub stations,
tab "Contact" selected:
indication of the entered contact data regarding the responsible service department resp. the service technician



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SICURO-230Z – sub station,
SICURO-24Z – sub station,
SICURO-24G – main station:

In the sub menu "INFORMATION" general data regarding the respective emergency light station are indicated.

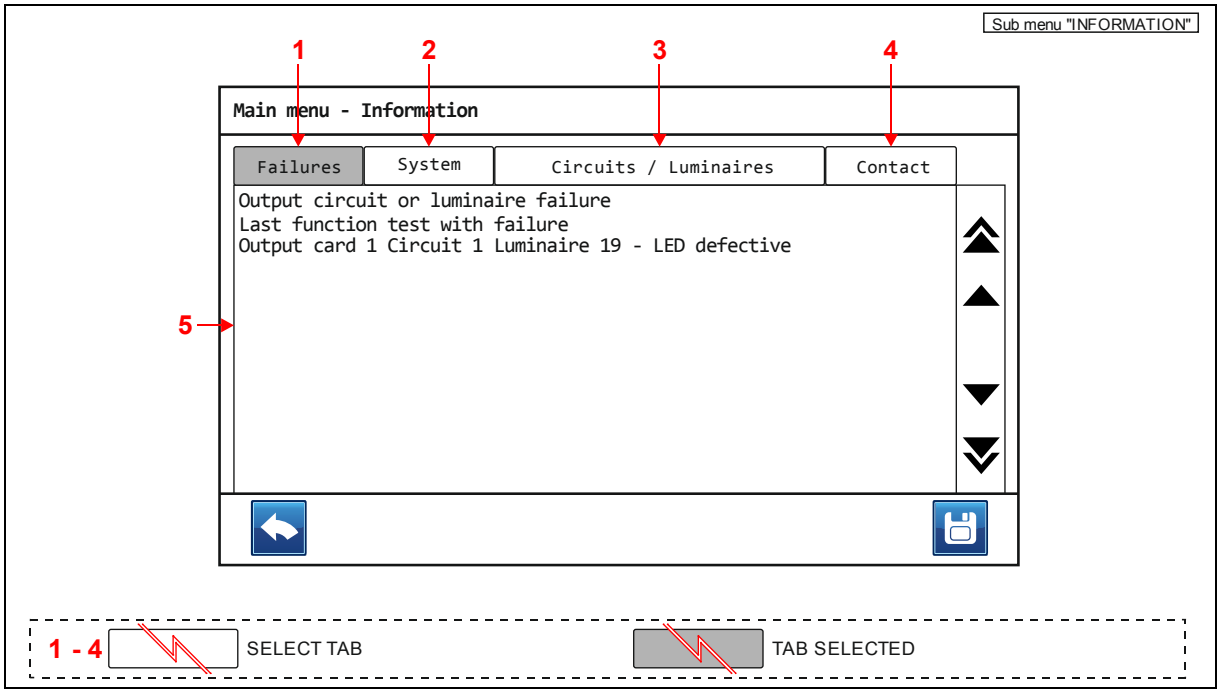
"1": button field with optical indication – selection of the tab "Failures"

"2": button field with optical indication – selection of the tab "System"

"3": button field with optical indication – selection of the tab "Circuits / Luminaires"

"4": button field with optical indication – selection of the tab "Contact"

"5": text field –
tab "Failures" selected:
indication of a summary of all current failures and necessary maintenances,
tab "System" selected:
indication of a summary of the system and test settings as well as software version of the operating system,
tab "Circuits / Luminaires" selected:
indication of a summary of the read in cards and luminaires modules,
tab "Contact" selected:
indication of the entered contact data regarding the responsible service department resp. the service technician



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1-12 "BATTERY STATUS"

SICURO-230Z:

In the sub menu "BATTERY STATUS" data regarding the battery supply of the main station are indicated.

View – 1 von 4:

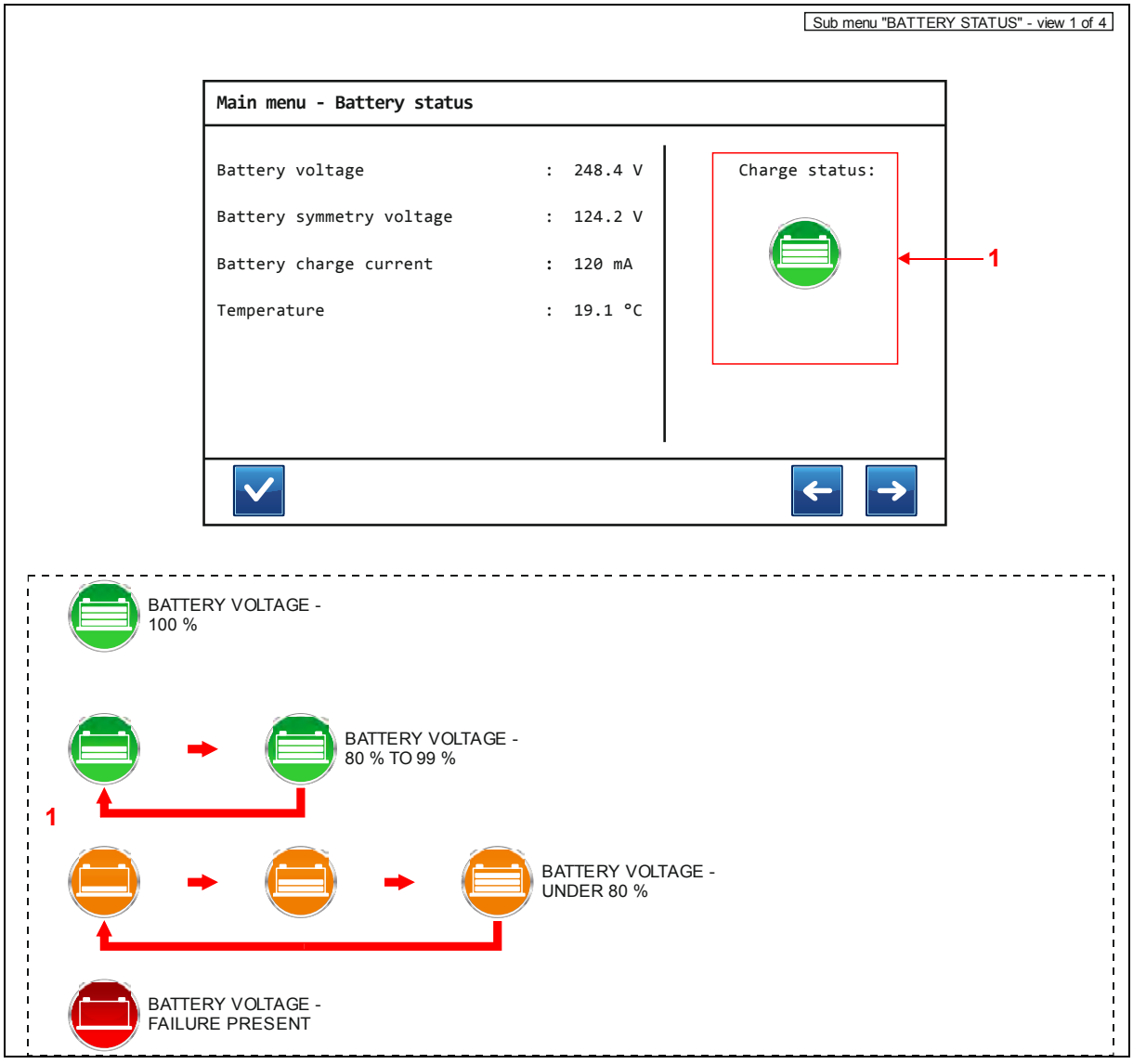
"1": text field with optical indication –battery charge voltage

► "Battery voltage:":
text field – indication of the battery voltage (battery supply)

► "Battery symmetry voltage:":
text field – indication of the battery symmetry voltage (battery middle tapping of the battery supply)

► "Battery charge current:":
text field – indication of the battery charge current

► "Temperature:":
text field – indication of the ambient temperature (temperature sensor of the battery supply)



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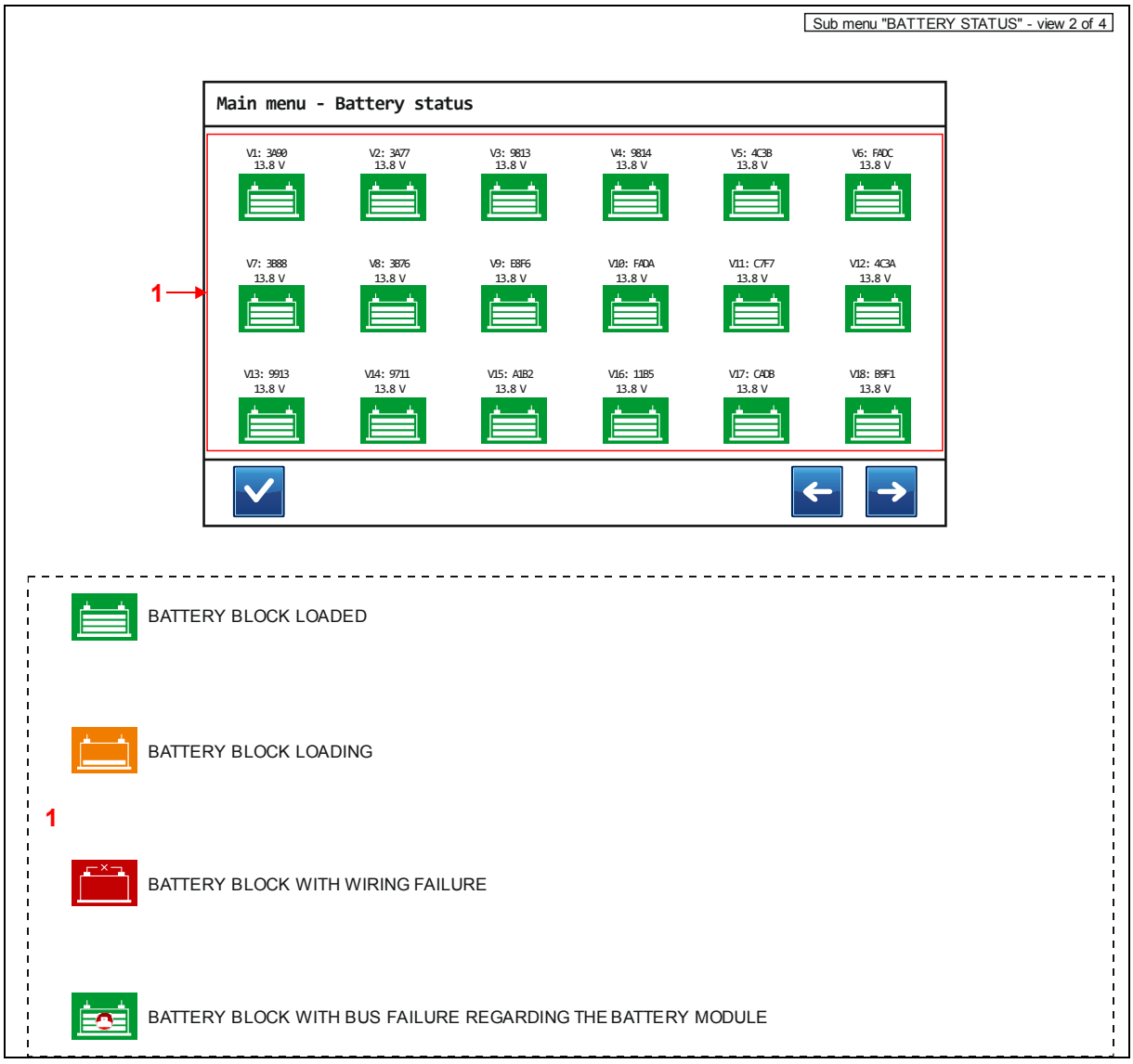
An actuation of the button field ➔ calls up the following view in the sub menu "BATTERY STATUS".

View – 2 von 4:

"1": text field – battery voltages and status of the battery blocks 1 to 18 (V1 to V18) with respective module addresses regarding the battery string 1



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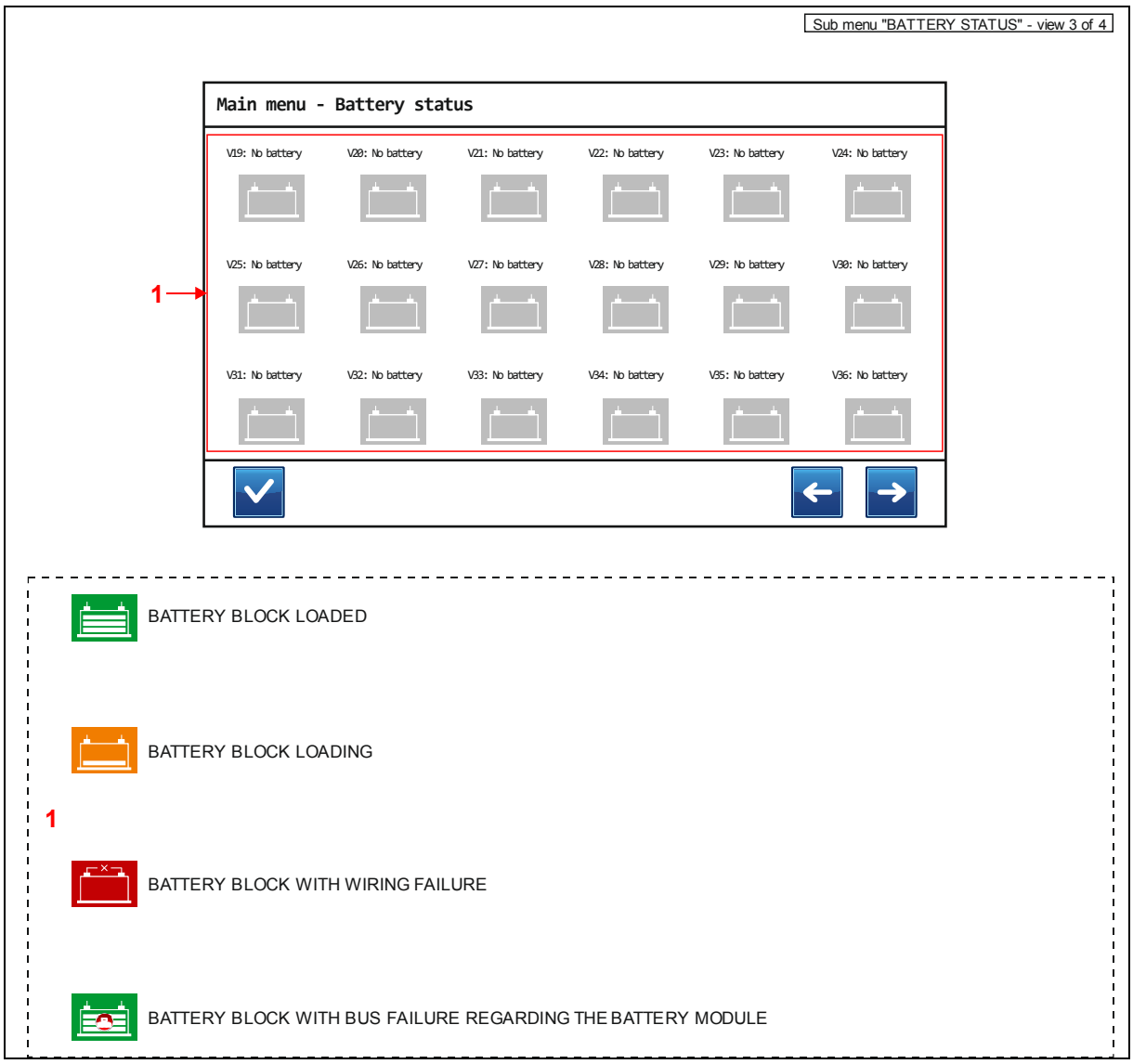
An actuation of the button field ➡ calls up the following view in the sub menu "BATTERY STATUS".

View – 3 von 4:

"1": text field – battery voltages and status of the battery blocks 19 to 36 (V19 to V36) with respective module addresses regarding the battery string 2



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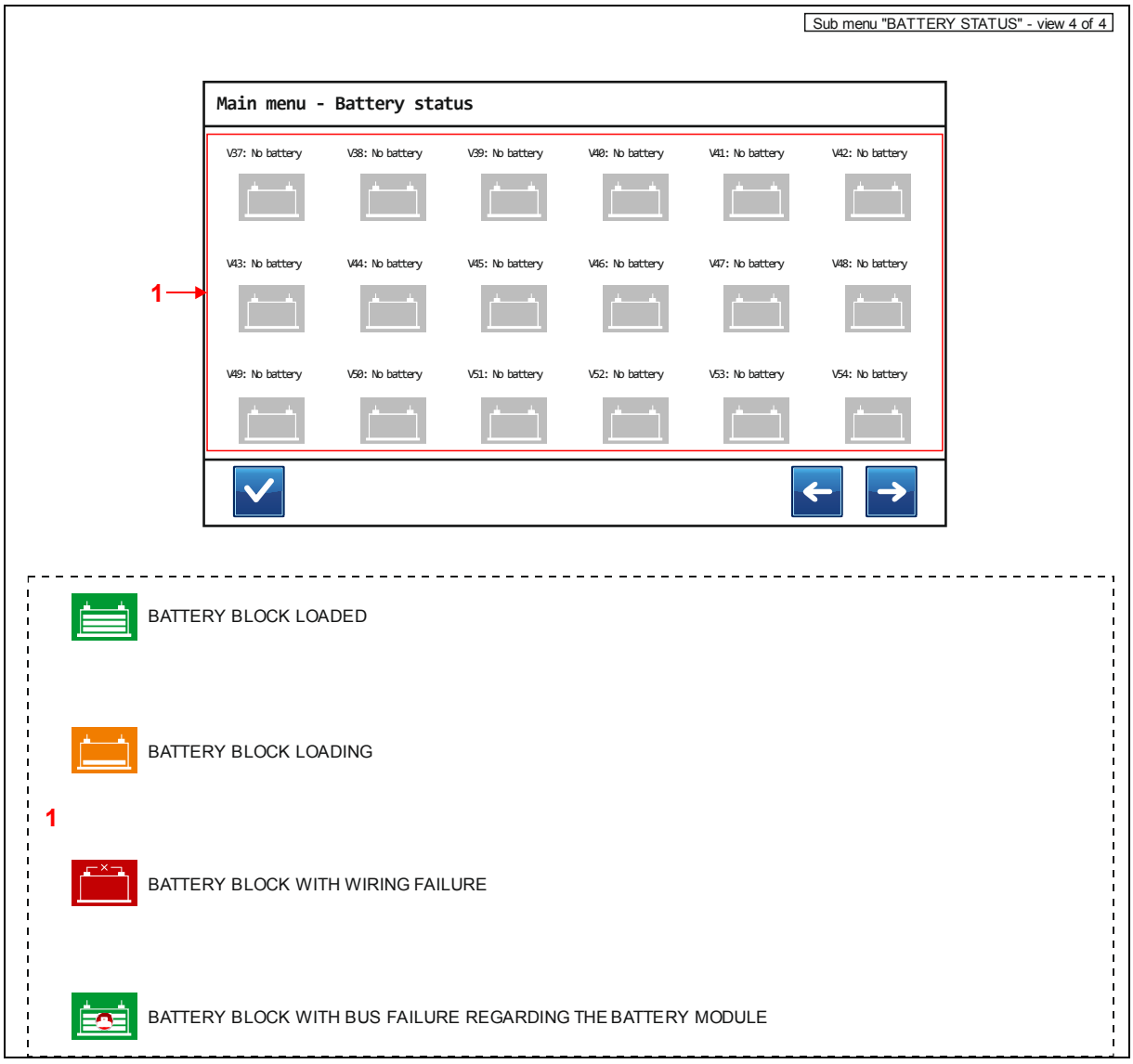
An actuation of the button field ➔ calls up the following view in the sub menu "BATTERY STATUS".

View – 4 von 4:

"1": text field – battery voltages and status of the battery blocks 37 to 54 (V37 to V54) with respective module addresses regarding the battery string 3



SICURO-24Z:

The sub menu "BATTERY STATUS" is not available at SICURO-24Z systems.

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SICURO-24G:

In the sub menu "BATTERY STATUS" data regarding the battery supply of the main station are indicated.

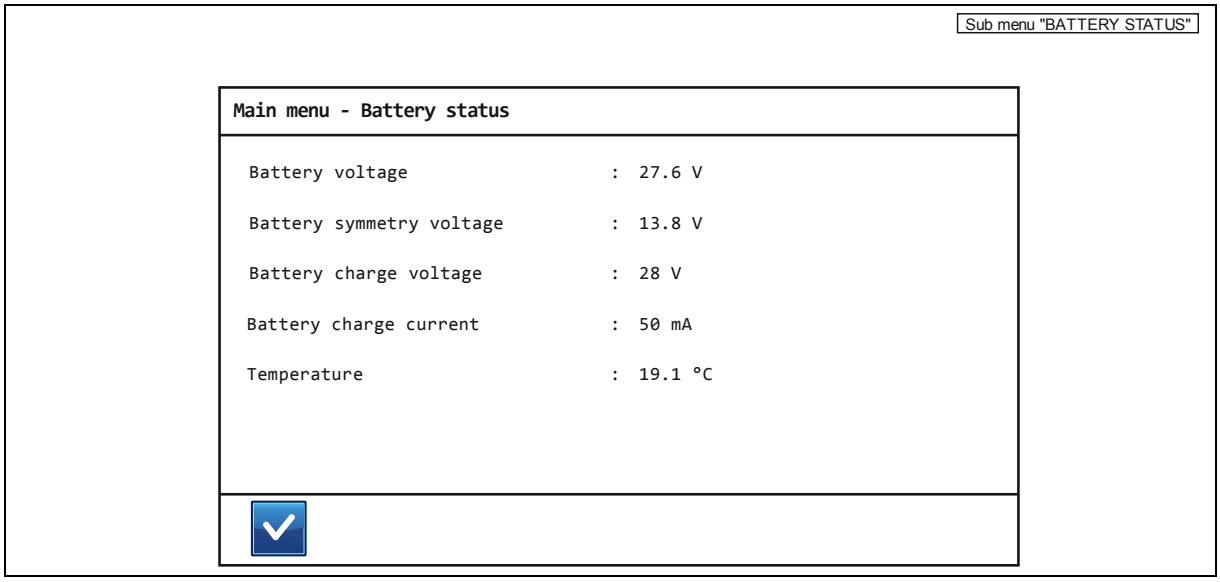
► "Battery voltage:":
text field – indication of the battery voltage (battery supply)

► "Battery symmetry voltage:":
text field – indication of the battery symmetry voltage (battery middle tapping of the battery supply)

► "Battery charge voltage:":
text field – indication of the battery charge voltage

► "Battery charge current:":
text field – indication of the battery charge current

► "Temperature:":
text field – indication of the ambient temperature (temperature sensor of the battery supply)



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1-13 "CHARGER"

SICURO-230Z:

This device function is only available on a main station.

In the sub menu "CHARGER" data regarding the charger cards of the main station are indicated.

"1": text field with optical indication – operational condition (green)
indication on – green: operational condition activated
indication off: mains operational condition deactivated

"2": text field with optical indication – calibration procedure (green)
indication on – green: calibration procedure
indication off: no calibration procedure

"3": text field with optical indication –temperature compensation (green)
indication on – green: temperature compensation activated
indication off: mains temperature compensation deactivated

"4": text field with optical indication – ambient temperature of the battery supply too high (red / green)
indication on – red: failure present
indication on – green: no failure present

"5": text field with optical indication – function of the hardware (red / green)
indication on – red: failure present
indication on – green: no failure present

"6": text field with optical indication – bus communication (red / green)
indication on – red: failure present
indication on – green: no failure present

► "Charger:":
button field – input of the card address (1 - 30) for selection of the charger card

► "Software version:":
text field – indication of the software version regarding the respective charger card

► "I charger:":
text field – indication of the charge current regarding the respective charger card

► "U charger:":
text field – indication of the charge voltage regarding the respective charger card

► "Temperature:":
text field – indication of the ambient temperature of the battery supply (temperature sensor of the battery supply)

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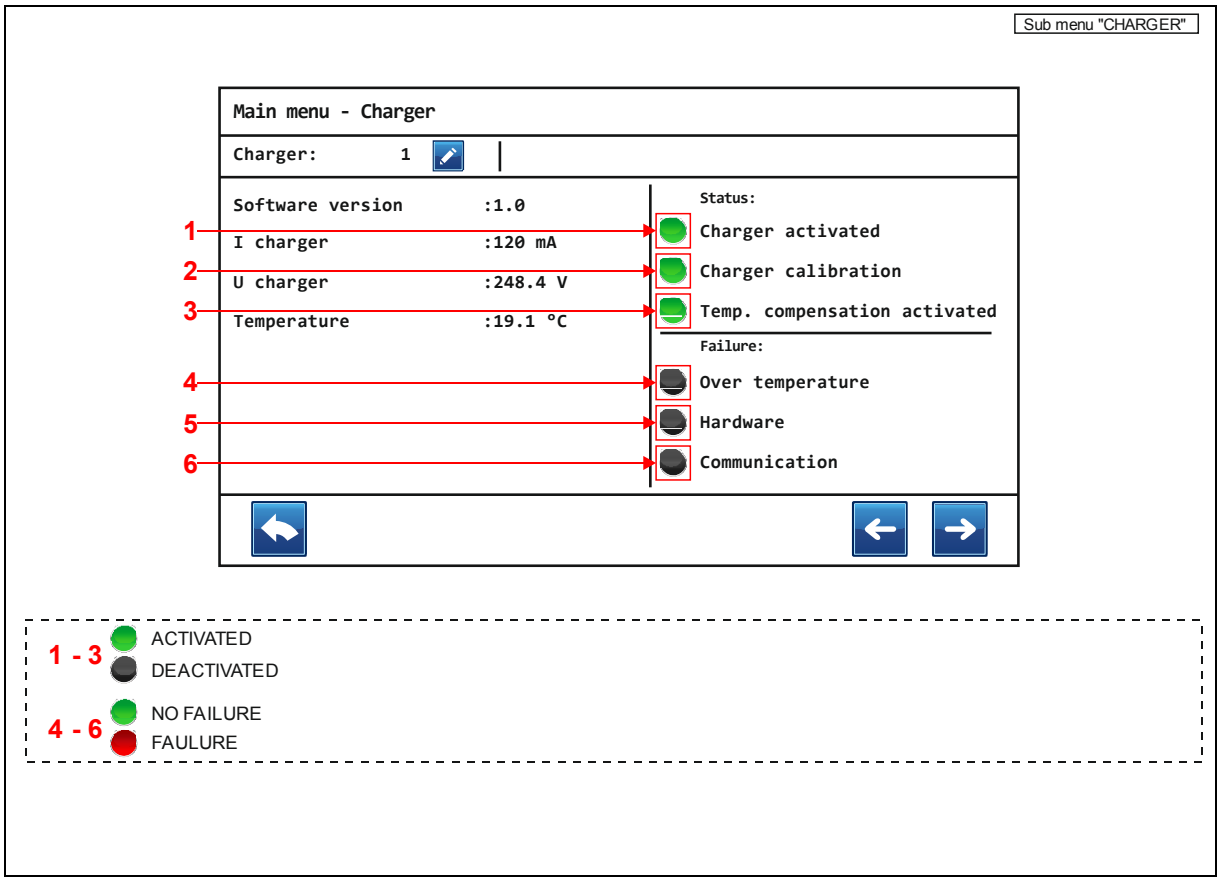

SICURO-24Z and SICURO-24G:

The sub menu "CHARGER" is not available at SICURO-24Z and SICURO-24G systems.

1-14 "SERVICE"

The sub menu "SERVICE" is password-protected and only used for service purposes by Beghelli PRÄZISA.

Note: **This password query is not related to the password protection of the sub menu "SYSTEM 5/6" regarding the operating menu and the main menu.**

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Addressing types ID and Rotary, luminaire positions

Addressing types ID and Rotary:

Before mounting of the luminaires and all other equipment which includes luminaire modules, it must be decided whether an automatic or manual addressing of the luminaire modules is desired.

> The addressing type ID is required for an automatic addressing of the luminaire modules.

> For the automatic addressing the integrated rotary switch of the luminaire modules is not used. It is recommended to leave the rotary switch at all luminaire modules in factory setting with the address 16 (tagging 0). However the setting of other addresses is not affecting the automatic addressing.

> The addressing type Rotary is required for a manual addressing of the luminaire modules.

> For the manual addressing the integrated rotary switch of the luminaire modules is used. All connected luminaire modules of an output circuit must be addressed continuously by the rotary switch. A setting with double addresses may not be done.

Luminaire positions – SICURO-230Z, SICURO-24Z and SICURO-24G with addressing type ID:

The luminaire positions from 1 to 32 correspond to the module addresses from 1 to 32. At the read in of connected luminaire modules the module addresses are assigned communication-related by the operating system.

> A respective assignment of the module addresses regarding the physical connection sequence is not possible at an automatic read in on an output circuit which is wired in a row.

> An always identical assignment of the module addresses regarding steady connected luminaire modules is ensured at multiple read in.

> An always identical assignment of the module addresses regarding changes at the connected luminaire modules (adding, removal or exchange) is not ensured at multiple read in.

At already read in luminaire modules the luminaire positions can be changed manually over the operating system to establish an adaption to the documentation of the installation.

Luminaire positions – SICURO-230Z with addressing type Rotary:

The luminaire positions from 1 to 32 correspond to the module addresses from 1 to 32. At the read in of connected luminaire modules the module addresses are assigned by the manual setting on the rotary switch.

> After changes regarding the connected luminaire modules (adding, removal or exchange) a renewed read-in is necessary.

At already read in luminaire modules the luminaire positions can not be changed manually over the operating system to establish an adaption to the documentation of the installation.

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Assignment signs, language abbreviations, programming structure

Assignment signs:

The operating system is using assignment signs for unique assignment of equipment and their properties. The assignment signs are indicated in various menus.

"L": luminaire module with driver function or switch function,
LED driver 230 V,
LED driver 24 V,
Switch 500 W

"I": luminaire module with inverter function,
LED inverter 230 V,
LED inverter 24 V

Language abbreviations:

"ITA":	language Italian
"GER":	language German
"ENG":	language English
"DUT":	language Dutch
"SLO":	language Slovenian
"HEB":	language Hebrew
"CRO":	language Croatian
"FRA":	language French
"POL":	language Polish
"CZH":	language Czech
"NOR":	language Norwegian
"CHS":	language simplified Chinese
"CHT":	language traditional Chinese
"SWE":	language Swedish

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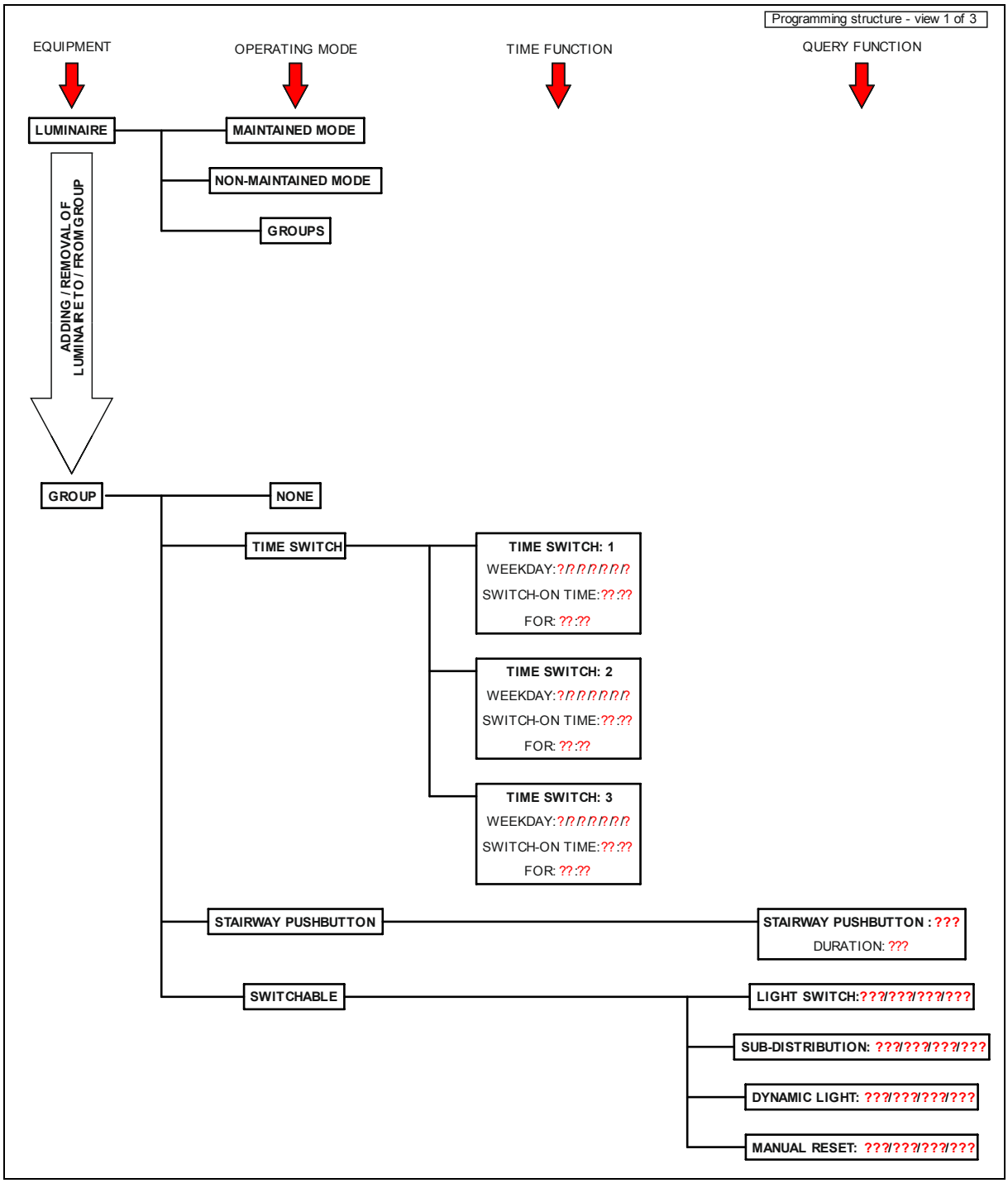
Programming structure:

The following view indicates all operating modes, time functions and query functions which can be selected regarding the luminaire modules and groups:

View – 1 of 3:



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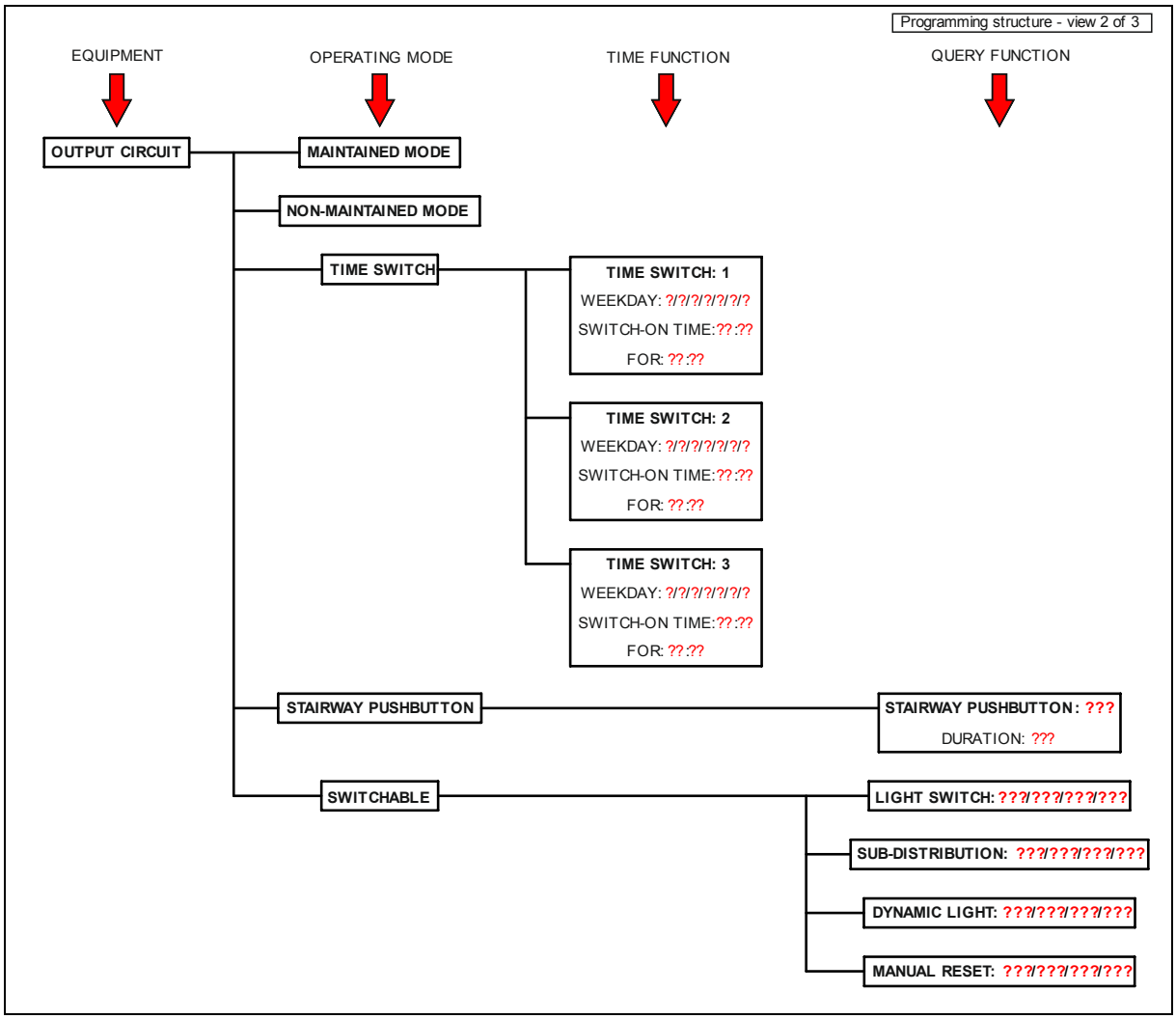
The following view indicates all operating modes, time functions and query functions which can be selected regarding the output circuits:

View – 2 of 3:



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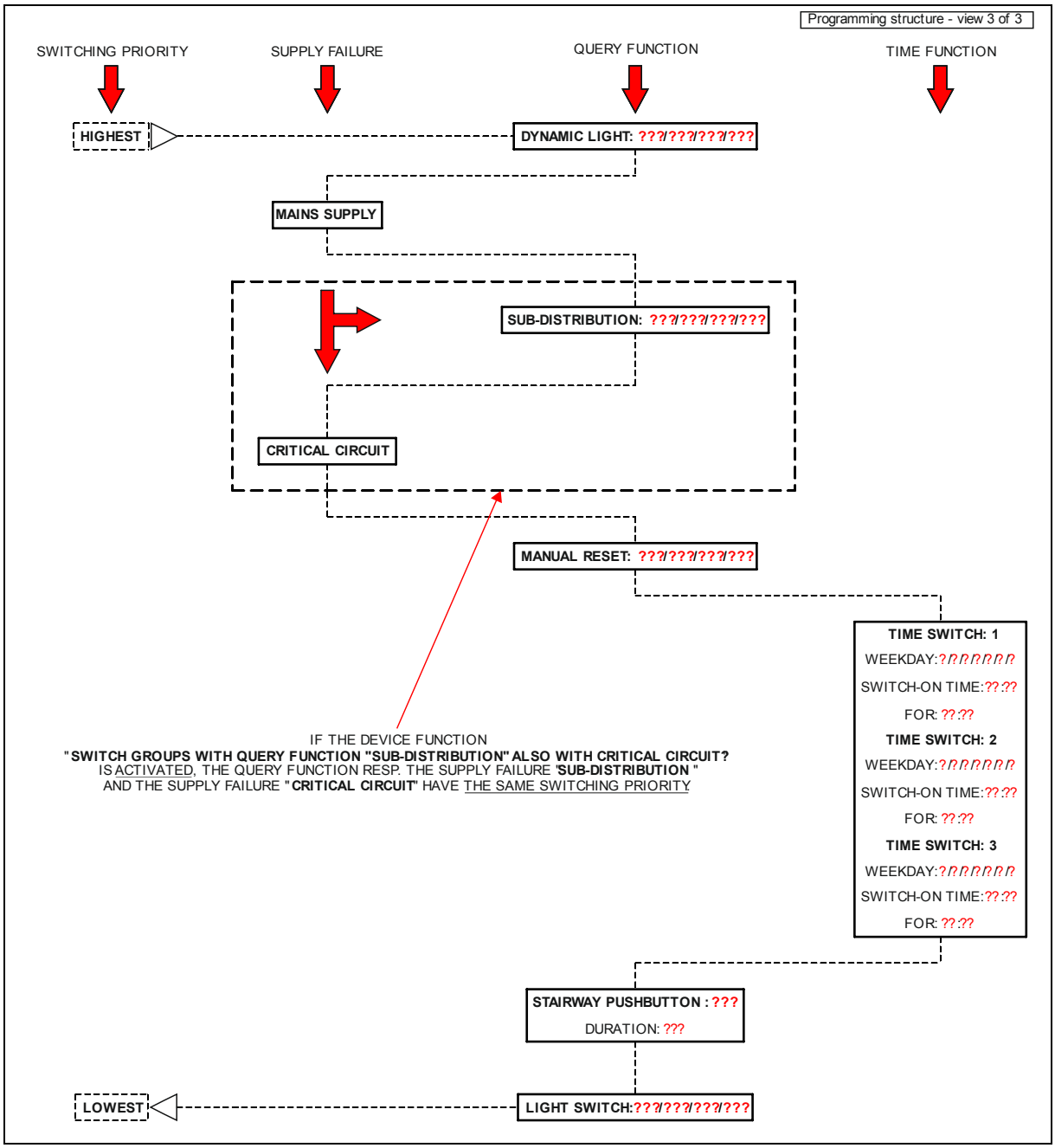
The following view indicates the switching priority regarding all supply failures, query functions and time functions:

View – 3 of 3:



Note: **The query function "Sub-distribution" is also a supply failure.**

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Factory settings – SICURO-230Z

"MAIN MENU" – "CONFIGURATION" – "TEST SETTINGS":

► "Function test:" ► "Automatic test:":	deactivated
► "Function test:" ► "Next test:":	| no input | / 00:00
► "Function test:" ► "Test cycle:":	7 days
► "Duration test:" ► "Automatic test:":	deactivated
► "Duration test:" ► "Next test:":	| no input | / 00:00
► "Duration test:" ► "Test cycle:":	365 days
► "Duration test:" ► "Test duration:":	40 minutes
► "Maintenance:" ► "Commissioning:":	Please enter date.
► "Maintenance:" ► "Last maintenance:":	No maintenance performed.
► "Maintenance:" ► "Maintenance cycle:":	365 days
► "Maintenance:" ► "Company:":	Beghelli PRÄZISA GmbH +49 (0)2064 9701 0 info@beghelli.de

"MAIN MENU" – "CONFIGURATION" – "SYSTEM":

► "Station:" ► "Address:":	1
► "Station:" ► "Device name:":	Please enter text.
► "Mains failure:" ► "Manual reset:":	deactivated
► "Mains failure:" ► "Automatic reset:":	10 seconds
► "Mains failure:" ► "Follow-up time:":	5 seconds
► "Critical circuit:" ► "Switch groups with query function "Sub-distribution" also with critical circuit?":	no
► "Network settings:" ► "IP address:":	192.168.100.140 *
► "Network settings:" ► "Subnet mask:":	255.255.255.0
► "Network settings:" ► "Standard gateway:":	192.168.100.1 *
► "Network settings:" ► "DNS:":	192.168.100.1 *
► "Network settings:" ► "DHCP:":	activated
► "Network settings:" ► "Modbus:":	deactivated
► "E-mail settings:":	non-encrypted
► "E-mail settings:" ► "E-mail function:":	deactivated
► "E-mail settings:" ► "Acceptor:":	acceptor@mail.com
► "E-mail settings:" ► "Sender:":	sender@mail.com
► "E-mail settings:" ► "Password:":	| no input |
► "E-mail settings:" ► "E-mail server:":	mail.server
► "E-mail settings:" ► "Port:":	| no input |
► "E-mail settings:" ► "Subject:":	Please enter text.
► "E-mail settings:" ► "Text:":	Please enter text.
► "E-mail settings:" ► "Sending options:" ► "Test with report":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Mains failure":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Operational condition deactivated":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Deep discharge":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Collective fault":	deactivated
► "Password protection operating menu:" ► "Protection:":	deactivated
► "Password protection operating menu:" ► "Password:":	| no input |
► "Password protection operating menu:" ► "Access time:":	60 minutes
► "Password protection main menu:" ► "Protection:":	deactivated
► "Password protection main menu:" ► "Password:":	| no input |
► "Password protection main menu:" ► "Access time:":	60 minutes
Web server – user name:	admin
Web server – password:	praezisa
► "Display:" ► "Brightness:":	100 %
► "Display:" ► "Screensaver:":	activated / 10 minutes
► "Serial number:":	Please enter serial number.
► "Emergency duration:":	0 hour
► "Battery capacity:":	0 ampere hour

"MAIN MENU" – "CONFIGURATION" – "DATE & TIME":

► "Date:":	| self-setting |
► "Time:":	| self-setting |
► "Automatic daylight saving time":	activated

"MAIN MENU" – "CONFIGURATION" – "SOFTWARE" – "SETTINGS":

► "Language:":	English
► "System:":	Rotary
► "System:" ► "Automatic backup:":	activated
► "System:" ► "Backup cycle:":	monthly
► "System:" ► "Select device type:":	| user-defined |

"*": Only factory setting in delivery condition of the SICURO system.
At a repeated factory reset the previously saved device parameter is being retained.

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Factory settings – SICURO-24Z

"MAIN MENU" – "CONFIGURATION" – "TEST SETTINGS":

► "Function test:" ► "Automatic test:":	deactivated
► "Function test:" ► "Next test:":	| no input | / 00:00
► "Function test:" ► "Test cycle:":	7 days
► "Duration test:" ► "Automatic test:":	deactivated
► "Duration test:" ► "Next test:":	| no input | / 00:00
► "Duration test:" ► "Test cycle:":	365 days
► "Duration test:" ► "Test duration:":	40 minutes
► "Maintenance:" ► "Commissioning:":	Please enter date.
► "Maintenance:" ► "Last maintenance:":	No maintenance performed.
► "Maintenance:" ► "Maintenance cycle:":	365 days
► "Maintenance:" ► "Company:":	Beghelli PRÄZISA GmbH +49 (0)2064 9701 0 info@beghelli.de

"MAIN MENU" – "CONFIGURATION" – "SYSTEM":

► "Station:" ► "Address:":	1
► "Station:" ► "Device name:":	Please enter Text.
► "Mains failure:" ► "Manual reset:":	deactivated
► "Mains failure:" ► "Automatic reset:":	10 seconds
► "Mains failure:" ► "Follow-up time:":	5 seconds
► "Critical circuit:" ► "Switch groups with query function "Sub-distribution" also with critical circuit?":	no
► "Network settings:" ► "IP address:":	192.168.100.140 *
► "Network settings:" ► "Subnet mask:":	255.255.255.0
► "Network settings:" ► "Standard gateway:":	192.168.100.1 *
► "Network settings:" ► "DNS:":	192.168.100.1 *
► "Network settings:" ► "DHCP:":	activated
► "Network settings:" ► "Modbus:":	deactivated
► "E-mail settings:":	non-encrypted
► "E-mail settings:" ► "E-mail function:":	deactivated
► "E-mail settings:" ► "Acceptor:":	acceptor@mail.com
► "E-mail settings:" ► "Sender:":	sender@mail.com
► "E-mail settings:" ► "Password:":	| no input |
► "E-mail settings:" ► "E-mail server:":	mail.server
► "E-mail settings:" ► "Port:":	| no input |
► "E-mail settings:" ► "Subject:":	Please enter text.
► "E-mail settings:" ► "Text:":	Please enter text.
► "E-mail settings:" ► "Sending options:" ► "Test with report":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Mains failure":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Operational condition deactivated":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Deep discharge":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Collective fault":	deactivated
► "Password protection operating menu:" ► "Protection:":	deactivated
► "Password protection operating menu:" ► "Password:":	| no input |
► "Password protection operating menu:" ► "Access time:":	60 minutes
► "Password protection main menu:" ► "Protection:":	deactivated
► "Password protection main menu:" ► "Password:":	| no input |
► "Password protection main menu:" ► "Access time:":	60 minutes
Web server – user name:	admin
Web server – password:	praezisa
► "Display:" ► "Brightness:":	100 %
► "Display:" ► "Screensaver:":	activated / 10 minutes
► "Serial number:":	Please enter serial number.
► "Emergency duration:":	0 hour
► "Battery capacity:":	0 ampere hour

"MAIN MENU" – "CONFIGURATION" – "DATE & TIME":

► "Date:":	| self-setting |
► "Time:":	| self-setting |
► "Automatic daylight saving time":	activated

"MAIN MENU" – "CONFIGURATION" – "SOFTWARE" – "SETTINGS":

► "Language:":	English
► "System:" ► "Automatic backup:":	activated
► "System:" ► "Backup cycle:":	monthly
► "System:" ► "Select device type:":	| user-defined |

"*": Only factory setting in delivery condition of the SICURO system.
At a repeated factory reset the previously saved device parameter is being retained.

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Factory settings – SICURO-24G

"MAIN MENU" – "CONFIGURATION" – "TEST SETTINGS":

► "Function test:" ► "Automatic test:":	deactivated
► "Function test:" ► "Next test:":	| no input | / 00:00
► "Function test:" ► "Test cycle:":	7 days
► "Duration test:" ► "Automatic test:":	deactivated
► "Duration test:" ► "Next test:":	| no input | / 00:00
► "Duration test:" ► "Test cycle:":	365 days
► "Duration test:" ► "Test duration:":	40 minutes
► "Maintenance:" ► "Commissioning:":	Please enter date.
► "Maintenance:" ► "Last maintenance:":	No maintenance performed.
► "Maintenance:" ► "Maintenance cycle:":	365 days
► "Maintenance:" ► "Company:":	Beghelli PRÄZISA GmbH +49 (0)2064 9701 0 info@beghelli.de

"MAIN MENU" – "CONFIGURATION" – "SYSTEM":

► "Station:" ► "Address:":	1
► "Station:" ► "Device name:":	Please enter text.
► "Mains failure:" ► "Manual reset:":	deactivated
► "Mains failure:" ► "Automatic reset:":	10 seconds
► "Mains failure:" ► "Follow-up time:":	5 seconds
► "Critical circuit:" ► "Switch groups with query function "Sub-distribution" also with critical circuit?":	no
► "Network settings:" ► "IP address:":	192.168.100.140 *
► "Network settings:" ► "Subnet mask:":	255.255.255.0
► "Network settings:" ► "Standard gateway:":	192.168.100.1 *
► "Network settings:" ► "DNS:":	192.168.100.1 *
► "Network settings:" ► "DHCP:":	activated
► "Network settings:" ► "Modbus:":	deactivated
► "E-mail settings:":	non-encrypted
► "E-mail settings:" ► "E-mail function:":	deactivated
► "E-mail settings:" ► "Acceptor:":	acceptor@mail.com
► "E-mail settings:" ► "Sender:":	sender@mail.com
► "E-mail settings:" ► "Password:":	| no input |
► "E-mail settings:" ► "E-mail server:":	mail.server
► "E-mail settings:" ► "Port:":	| no input |
► "E-mail settings:" ► "Subject:":	Please enter text.
► "E-mail settings:" ► "Text:":	Please enter text.
► "E-mail settings:" ► "Sending options:" ► "Test with report":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Mains failure":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Operational condition deactivated":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Deep discharge":	deactivated
► "E-mail settings:" ► "Sending options:" ► "Collective fault":	deactivated
► "Password protection operating menu:" ► "Protection:":	deactivated
► "Password protection operating menu:" ► "Password:":	| no input |
► "Password protection operating menu:" ► "Access time:":	60 minutes
► "Password protection main menu:" ► "Protection:":	deactivated
► "Password protection main menu:" ► "Password:":	| no input |
► "Password protection main menu:" ► "Access time:":	60 minutes
Web server – user name:	admin
Web server – password:	praezisa
► "Display:" ► "Brightness:":	100 %
► "Display:" ► "Screensaver:":	activated / 10 minutes
► "Serial number:":	Please enter serial number.
► "Emergency duration:":	0 hour
► "Battery capacity:":	0 ampere hour

"MAIN MENU" – "CONFIGURATION" – "DATE & TIME":

► "Date:":	| self-setting |
► "Time:":	| self-setting |
► "Automatic daylight saving time":	activated

"MAIN MENU" – "CONFIGURATION" – "SOFTWARE" – "SETTINGS":

► "Language:":	English
► "System:" ► "Automatic backup:":	activated
► "System:" ► "Backup cycle:":	monthly
► "System:" ► "Select device type:":	| user-defined |

"*": Only factory setting in delivery condition of the SICURO system.
At a repeated factory reset the previously saved device parameter is being retained.

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Notes

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