

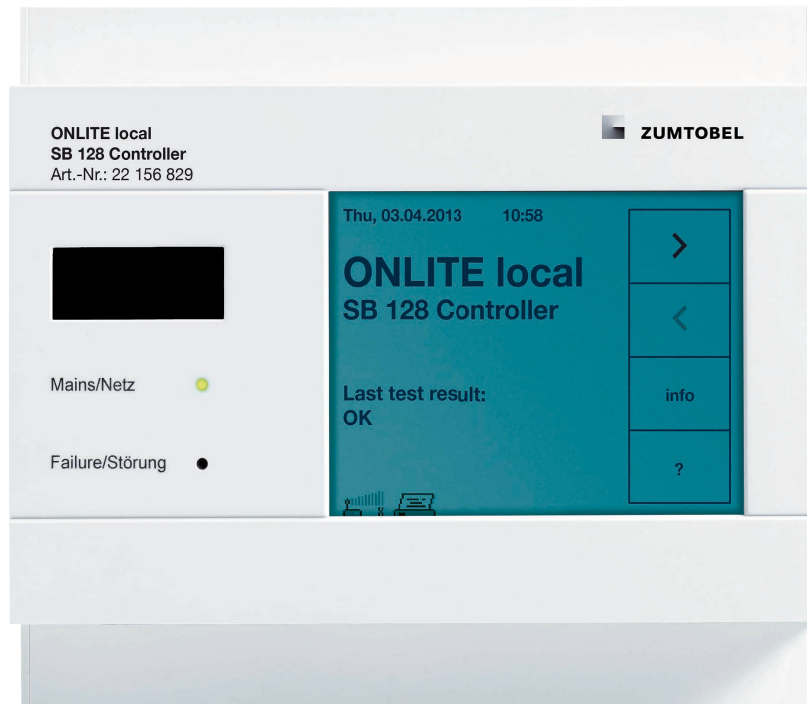


ZUMTOBEL

ONLITE local SB 128 Controller

Operating instructions

with quick commissioning
guide and installation check
list



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Manufacturer address

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Validity and technical state of this manual

This operating manual only relates to devices of the type ONLITE local SB 128 Controller with the article number 22 156 829.

Technical modifications made after printing this manual are not considered. Subject to changes.

Issue date: Version 06/2013 June 2013



1 Notes regarding security and use of the operating instructions

1.1 Use of symbols and identification of security notes

Instruction



This symbol indicates that the described instruction has to be performed by the user.

Displays and messages



This symbol indicates that the described values or texts are shown in the display or contained in messages and can not be edited.

Note



This symbol represents a reference to **hints and recommendations** which are useful when performing the instructions and handling the device or system components.

Caution!



This symbol warns of improper handling. Disregarding the instructions may result in damages to system components.

Warning!



This symbol points to sources of danger which may cause personal injuries or severe damages to system components.

Danger!



This symbol points to sources of danger which may cause critical personal injuries or acute damages to system components.

1.2 Important notes regarding industrial and operational safety

The device is part of the emergency and general lighting and consequently part of a building's safety equipment. Thus, appropriate care and precision are to be applied when installing and commissioning the system.

Warning!



Non-authorized or non-professional system installation and handling may result in outages of the safety equipment. This implies immediate danger for people and the security equipment itself. In addition, damages to machines and plants as well as loss of productions are possible consequences at production sites.

During normal operation, the following maintenance operations have to be performed continuously:

- Regular checking and inspection of the system.
- Inspection and logging of device functions.
- Safety measures in the event of failures.

Note



Inspections, safety tests and documentation are restricted to authorised technical staff.

National laws and guidelines are to be observed, regarding

- execution of inspections and safety tests and
- implementation of general and emergency lighting.

1.3 Notes on illustrations and circuit diagrams

Illustrations and circuit diagrams in these installation and operating instructions are partly for demonstration purposes only. Drawings and plans that were especially created for the lighting system and are in accordance with local requirements must be observed.



2 Product description

2.1 Specified use

The ONLITE local SB 128 Controller is intended for central controlling and monitoring of emergency lighting systems. Parameterisation and operation of the system is restricted to authorised technical staff.

Personal danger may occur in case of

- improper use or
- non-observance of safety regulations.

The device and connected system components may only be operated if these are in perfect technical condition and in compliance with

- the safety and danger notes contained in these installation instructions,
- operating and safety instructions stipulated by the system operator,
- the installation and operating data listed in section 2.4 on page 11.

Failures are to be reported to management and rectified.

Operating and safety regulations arise from these installation instructions as well as organisational instructions by management, and general as well as technical guidelines and regulations for accident prevention.

The manufacturer will not assume warranty or liability for consequential damages that occur due to:

- improper use,
- non-observance of regulations,
- unauthorised modifications or modifications made by technically non-competent persons to device connections and settings,
- operating unauthorised or unsuitable devices or device groups.

Caution!



Also pay attention to all laws, norms and guidelines applicable in the country in which the system is being installed and operated.

Verify whether electrical installations comply with the application environment.

Verify whether all used ballasts and luminaires fulfil the requirements of an emergency lighting system and the operation of an ONLITE system.

2.2 Description

The ONLITE local SB 128 Controller centrally controls and monitors single battery supplied emergency luminaires of the types ONLITE local and ONLITE Emergency Set via the DALI bus. Devices for the following busses are supported:

- DALI (*Digital Addressable Lighting Interface*, device type 1)
- eD (*extended protocol based on the DALI connection*, device type 1)

The ONLITE local SB 128 Controller allows to monitor two groups with 64 luminaires each. The maximum cable length from the controller to the last luminaire can be up to 300 m (line cross section at least 1.5 mm²). By using ONLITE local Extender modules, the complete installation can be expanded to 256 monitored luminaires and in this case the maximum cable length may be up to 600 m.

All settings of the ONLITE local SB 128 Controller are stored to a non-volatile memory. Due to this, the settings will not get lost even if the device is completely switched off. Via the infrared interface on the controller's front panel, a PC or a PDA can be connected. This way, the configuration of the ONLITE local SB 128 Controller and the test book can be transmitted to the PC or the PDA for the purpose of data storage.

The ONLITE local SB 128 Controller monitors the emergency luminaires by communicating via the DALI bus. Each single emergency luminaire is monitored individually and the result is indicated on the display. In parallel to the operation of the ONLITE local SB 128 Controller, lighting control commands (e.g. issued via the EMOTION touch panel) can be transmitted via the DALI bus. This allows the operation of emergency lighting luminaires as a part of the general lighting without having additional installation efforts.

The ONLITE system provides the following supplementary functions:

- Automatic addressing and monitoring of luminaires
Each ONLITE local emergency luminaire is detected by the ONLITE local SB 128 Controller and assigned to the corresponding DALI group. Consequently, each luminaire can be monitored and operated individually.
- Potential-free signaling contacts for remote indication of the operating state
Three potential-free signaling contacts are available for the remote indication of the ONLITE local system's operating state. The system events can be freely assigned to the signaling contacts.
- Failure reports and luminaire configuration via GSM-mobile radio communication (optional)
The ONLITE GSM module, which can be connected to the ONLITE local SB 128 Controller, allows to easily configure the luminaires via any MFV telephone when commissioning the installation. Using a GSM mobile phone, failure reports of the controller can also be received via the SMS service.
- Printing of test logs (optional)
The ONLITE IR-Printer, which can be connected to the ONLITE local SB 128 Controller via the infrared interface, allows to print the recorded test logs and the current configuration of the system.

Netz / Mains / Réseau /
Rete / Red / Netvoedig

2.4 Technical Data

Item name

Designation: ONLITE local SB 128 Controller
 Art.-No.: 22.156.829

Power supply

Supply voltage: 230 V AC $\pm$ 10 %
 Mains frequency: 50 to 60 Hz
 Power consumption: 10 W max.

Connections

Connections: Mains, 2 x DALI, 3 potential-free signaling contacts, infrared, RS 232

Infrared interface

Transfer rate: 19.2 - 115 kBaud
 Transfer protocol: irDA, IR printer protocol
 Range of transmission: 0.5 m

RS 232 interface

Transfer rate: 19.2 - 115 kBaud
 Transfer protocol: 8 bit, 1 start bit, 1 stop bit, no parity
 Maximum cable length: 3 m

Housing

Dimensions L/W/H: 130 / 155 / 65 mm

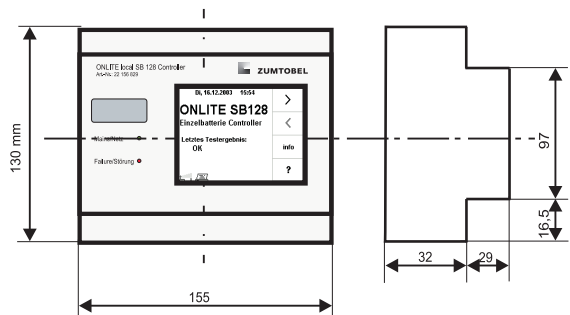


Figure 2: ONLITE SB 128 Controller mechanical characteristics

Weight

Weight (mass): 0.7 kg

Allowed temperature range:

Storage: - 20 °C...+ 80 °C
 Operation: 0 °C...+ 40 °C



Protection type

Protection type:

IP20 according to DIN EN 60 529

Protection class:

Class 1 according to DIN EN 60 529

Optional modules

ONLITE IR-Printer:

Infrared printer for printing test logs and system configuration data.

ONLITE GSM Module:

GSM mobile radio communication for setting up luminaires and reporting failure messages via SMS (Short Message Service).

ONLITE local Extender:

Allows expansion from 128 to 256 emergency luminaires. One ONLITE local Extender module is able to handle a maximum of 64 emergency luminaires (see also the circuit diagram on page 10).

ONLITE local Repeater:

Allows extending the DALI line with up to 300 m.

ONLITE local Switch Module:

Permits independent switching from maintained to non-maintained of up to four emergency lighting groups or individual luminaires of an emergency lighting group connected to the SB 128 controller.

ONLITE local Remote Interface:

Is used to remotely display the emergency lighting system operating status via LEDs.

2.5 Communication and data exchange

2.5.1 Communication and data exchange interfaces

IR interface

The IR interface located on the ONLITE local SB 128 Controller front panel establishes a direct connection to the ONLITE IR-Printer or to an external PC (e.g. a Notebook). Via this interface, the current configuration data as well as the test logs can be read out.

RS 232 interface

The serial RS 232 interface allows the data exchange with the optional GSM module.

2.5.2 DALI bus

The DALI bus (*Digital Addressable Lighting Interface*) is used for the communication of the ONLITE local SB 128 Controller with ONLITE local emergency luminaires and for connecting general lighting DALI luminaires. The ONLITE local SB 128 Controller provides two separate DALI busses with an integrated bus supply (terminals A-D1, A-D2 for bus A and terminals B-D1, B-D2 for bus B).

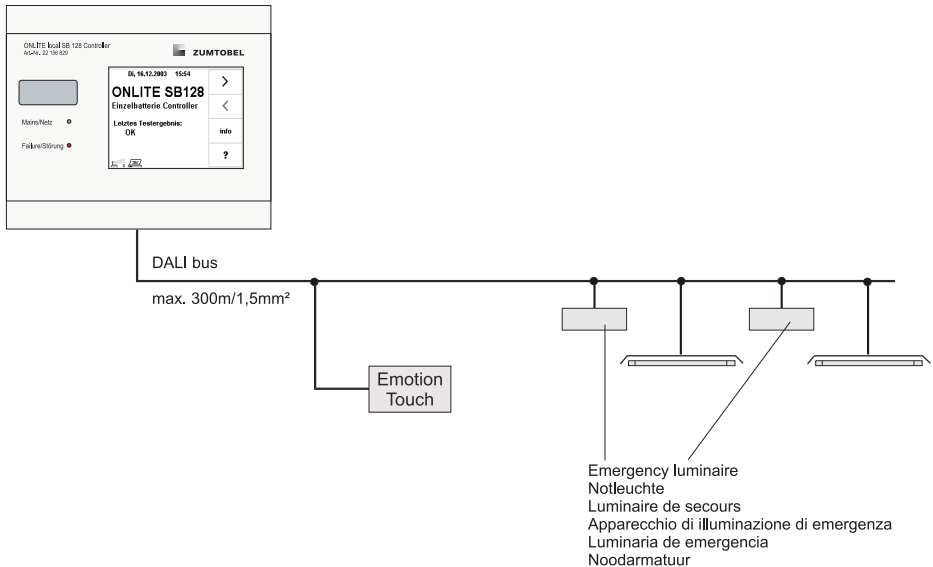


Figure 3: Application example of integrating general lighting luminaires into the ONLITE local check system through the DALI bus

The possibly available general lighting connected to the same bus is not affected by the ONLITE local SB 128 Controller and can be controlled using an EMOTION Touch module or LM-DALI, for instance.



3 Installation

Warning!



Only qualified electrical specialists may perform work on the 230 V mains supply.

Wiring of current-carrying lines as well as signal and control lines must be done in accordance with the relevant guidelines and norms.

National guidelines and regulations applicable in the country in which the system is being installed and operated have to be observed.

3.1 Who is allowed to perform the installation?

In principle, the installation may only be performed by suitably qualified professional electrical specialists who have been briefed on local and operational conditions. Other persons may only perform the installation under the supervision and control of authorized technical staff, after having received appropriate briefing and if the tasks and jobs have been fully understood.

3.2 Mounting the ONLITE local SB 128 Controller

The ONLITE local SB 128 Controller can be mounted using the drilling holes in the rear panel or on a top-hat rail according to EN 50022.

The required drilling hole distances can be found in the accompanying drawing.

The drilling hole diameter is 3.5 mm.

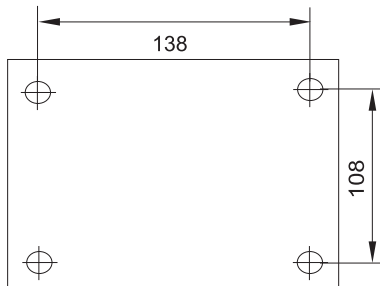


Figure 4: Mounting the SB 128 Controller

3.3 Connecting the DALI bus

Connect the cable for the first DALI bus to terminals A-D1 and A-D2 and the cable of the second bus to terminals B-D1 and B-D2. The cable polarity is insignificant.

Please observe the required line cross sections:

- up to 100 m 0.5 mm²
- 100 m - 150 m 0.75 mm²
- 150 m - 200 m 1.0 mm²
- 200 m - 300 m 1.5 mm²

Recommendation: Always use a line cross section of 1.5 mm².

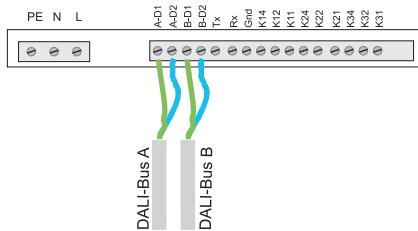


Figure 5: Creating a DALI connection with the ONLITE SB 128 Controller

The ONLITE local check Switch module is a DALI input device for independent switching from maintained to non-maintained of up to four emergency lighting groups or individual luminaires of an emergency lighting group connected to the SB 128 controller.

The ONLITE local Switch module must not be used together with light controllers of the types Emotion Touch or LM-DALI.

The ONLITE local Switch module may only be connected to group 1 of the ONLITE local SB 128 Controller. It provides four switching inputs (S1 to S4) which can be used for an individual switching of security luminaires and/or emergency exit sign luminaires. The push button inputs may only be operated potential-free.

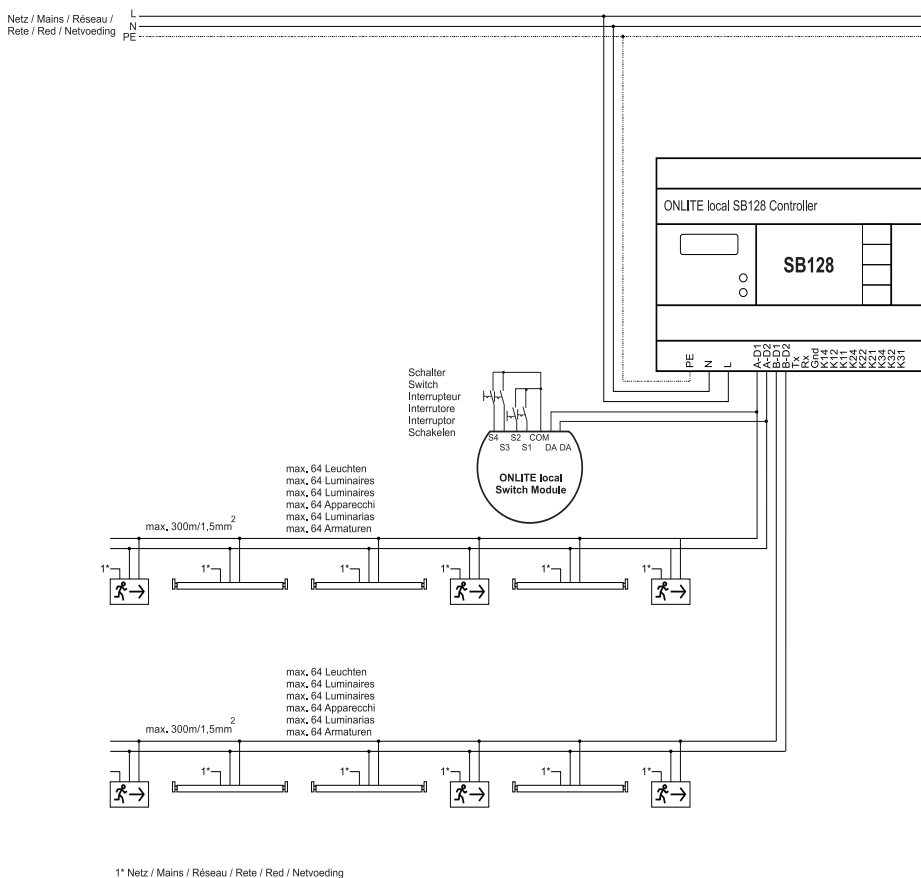


Figure 6: Connecting the ONLITE local Switch module to the ONLITE local SB 128 Controller

3.5 Connecting a GSM module

The ONLITE GSM module is intended as an additional module for the ONLITE local SB 128 Controller. It enables the communication between the controller and a standard telephone. Even telephone conversations are possible via the integrated microphone and speaker. The GSM module enables the ONLITE local SB 128 Controller to send messages (e.g. failure messages) to a mobile phone using the SMS service (Short Message Service). Conversely, it is also possible to issue commands to the ONLITE local SB 128 Controller using the buttons of a tone-dialling telephone.

Warning!



Prior to clamping, both the ONLITE local SB 128 Controller and the device to be connected must be switched dead.

The ONLITE GSM Module is connected to the controller's RS 232 interface as follows:

Connect the RS 232 cable to the terminals Rx, Tx and Gnd of the ONLITE local SB 128 Controller. Connect the other end of the RS 232 cable to the terminals Rx, Tx and Gnd of the ONLITE GSM module.

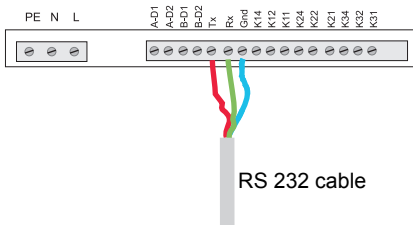


Figure 7: Creating a RS 232 connection with the ONLITE SB 128 Controller

Caution!



Ensure that the same wires are connected to the terminals with identical labels at both devices. The maximum allowed RS 232 cable length is 3 meters. Furthermore, take note of the information given in section 2.4 on page 11.

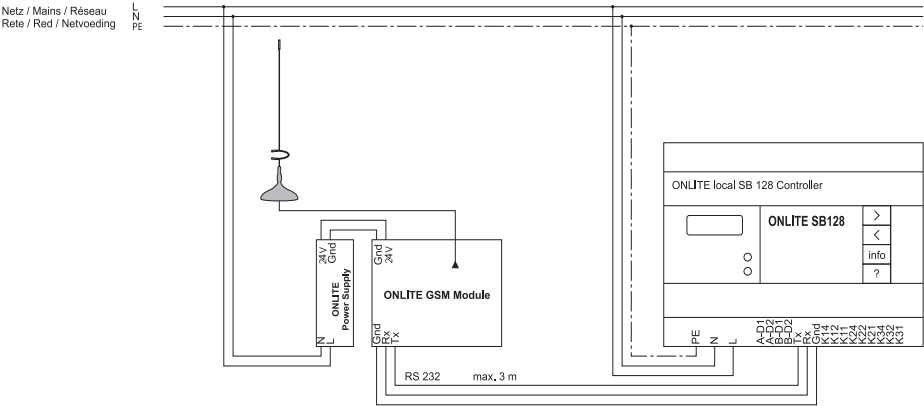


Figure 8: Connecting the ONLITE GSM module to the ONLITE local SB 128 Controller

3.6 Connecting a remote display device

In order to remotely display the emergency lighting system operating status via LEDs, the following remote display devices can be used:

- ONLITE local remote interface
- ONLITE BRI

Warning!



Do not switch on the voltage supply (230 V mains power supply) until all wiring and installation activities have been completed.

Both remote displays may be connected to the SB 128 Controller via the potential-free signaling contacts of the relays 1-3.

Voltage supply of the remote display is provided either by the ONLITE Power Supply (optional) or by an external power supply unit.

Connection of the remote display has to be performed in accordance with:

- the manufacturer's information for the remote display.
- the schematic drawing given below. Signaling contacts:

K11-K14 NO	K11-K12 NC
K21-K24 NO	K21-K22 NC
K31-K34 NO	K31-K32 NC

NO: normally open

NC: normally closed
- the contact rating:

max. voltage:	10 - 30 V AC/DC
max. current:	2 A
- the plans and drawings according to the conditions at the installation site.

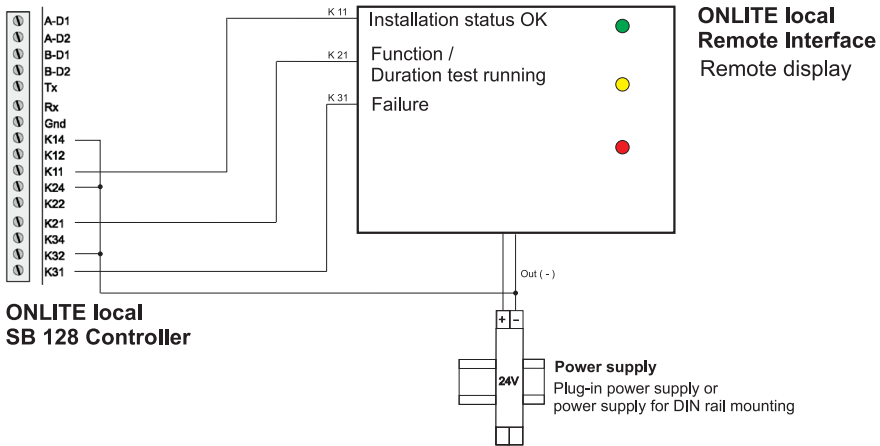


Figure 9: Connecting the ONLITE local remote interface to the ONLITE local SB 128 Controller

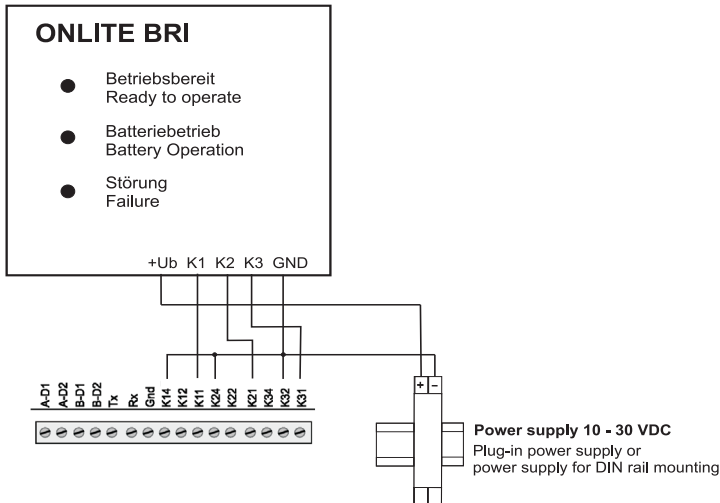


Figure 10: Connecting the ONLITE BRI to the ONLITE local SB 128 Controller



3.6.1 System and error messages assignment

The assignment of system and error messages to relay 1 - 3 is by default:

- green: system ready
- yellow: battery operation mode or function test / duration test is running
- red: fault in the system

When commissioning the system, the assignment can be configured as desired (see section 9.3 on page 50).



3.7 Connecting the ONLITE local Extender

The ONLITE local Extender is a module used to extend the ONLITE local SB 128 controller by a further 64 luminaire addresses. Up to three local extenders may be connected to the second DALI group (B) in order to expand the installation to a maximum of 256 individually monitored luminaires. In this case, the maximum line length is doubled (600 m).

Connections of the ONLITE local Extender have to be performed as follows:

- the DALI bus outputs: B-D1/B-D2 coming from the ONLITE local SB 128 controller are connected to the D1/D2 inputs of the ONLITE local Extender.
- the mains power is supplied to the L and N terminals;
- the outputs D1/D2 of the ONLITE local Extender are available for connecting up to 64 safety and escape-sign luminaires.

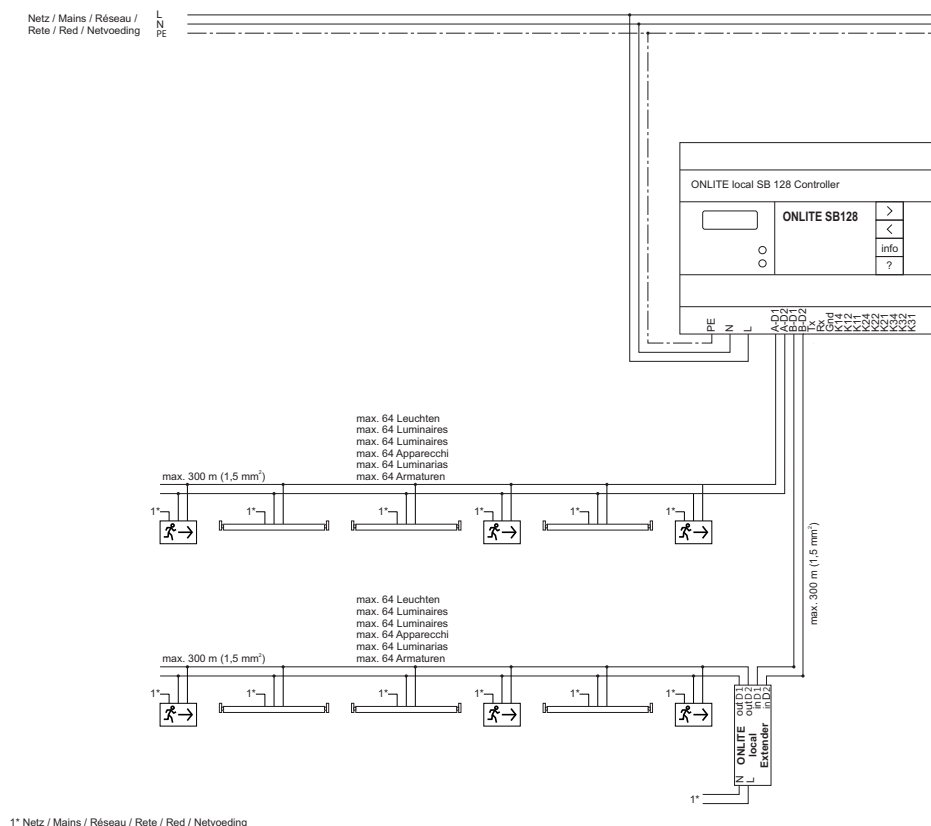


Figure 11: Connecting further 64 emergency/exit signs luminaires to the SB 128 Controller by using an ONLITE local Extender

3.8 Connecting the ONLITE local Repeater

The ONLITE local Repeater serves for extending the DALI line. Included in the ONLITE local check system, it ensures that data is forwarded from the ONLITE local SB 128 Controller to the DALI lighting control systems such as LUXMATE.

Using an ONLITE local Repeater and a DALI bus supply, the line can be extended for another 300 m when a line cross-section of 1.5 mm² is used.

Connections of the ONLITE local Repeater have to be performed as follows:

- The DALI bus outputs: B-D1/B-D2 or A-D1/A-D2 coming from the ONLITE local SB 128 controller are connected to the terminal A (data in) D1/D2 inputs of the ONLITE local Repeater.
- Terminal B (data out): D1/D2 outputs can e.g. be connected to an LM-DALI (see the following figure).

The repeater is supplied by the DALI bus and the current consumption is two DALI loads.

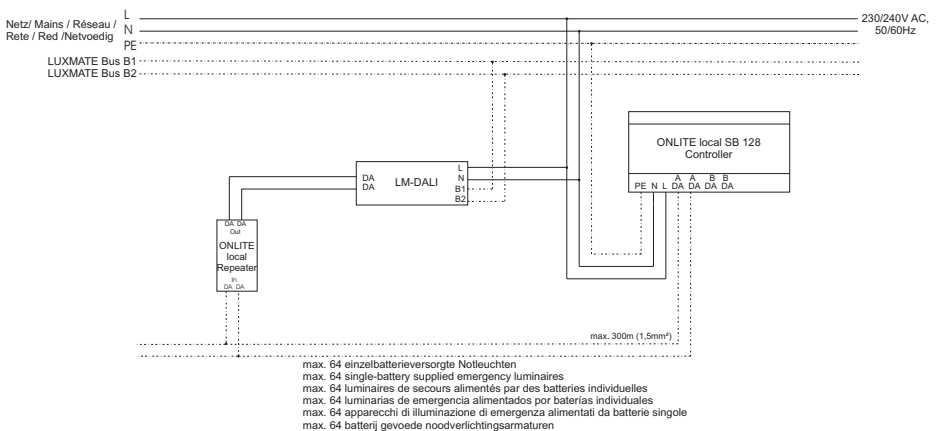


Figure 12: Extending the DALI line by using the ONLITE local Repeater



3.9 Connecting the 230 V mains supply

The ONLITE local SB 128 Controller is powered by the 230 V, 50/60 Hz mains supply.

Connect the 230 V mains supply to the ONLITE local SB 128 Controller's screw terminals L, N and PE **while mains supply is switched off**.

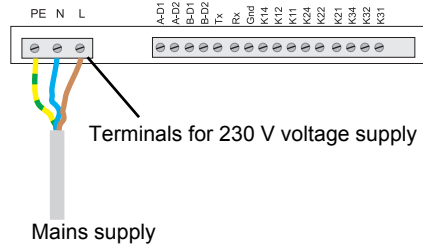


Figure 13: Connecting the mains supply

3.10 Completing the installation

The following operations and tests have to be done after installation:

- Perform a final check on all works done and compare the established connections with the plans and drawings.
- Check that all connections are firm.
- Remove all unused cables, insulation and fixing materials, tools and packaging.

4 Commissioning

4.1 Important notes prior to commissioning

Take note of the following instructions before initial commissioning or re-starting:

- Commissioning may only be performed by an authorised electrical specialist having specialised knowledge of technical and legal principles for configuring and operating emergency lighting systems.
- In addition, observe national regulations and guidelines for commissioning and operation of emergency power lighting systems.
- Observe all measures for work safety.
- Before commissioning, check that the installation activities have been performed and completed according to regulations.
- Compare all works performed with the plans and drawings.

4.2 General notes concerning operation

The ONLITE local SB 128 Controller is operated menu-driven via the touch panel located on the front panel. All messages (system, status and error messages) are displayed on the touch panel. Selecting menus or tabs, entering and editing parameters as well as executing commands is done by means of appropriate control keys and device symbols. These keys or symbols can be operated using a suitable pen or your finger.

When touching the panel, its background lighting is activated automatically and extinguishes after 20 seconds without any input. After 60 seconds, the panel automatically returns to the basic display, if there are no setting changes to be confirmed or active procedures (e.g. running tests).

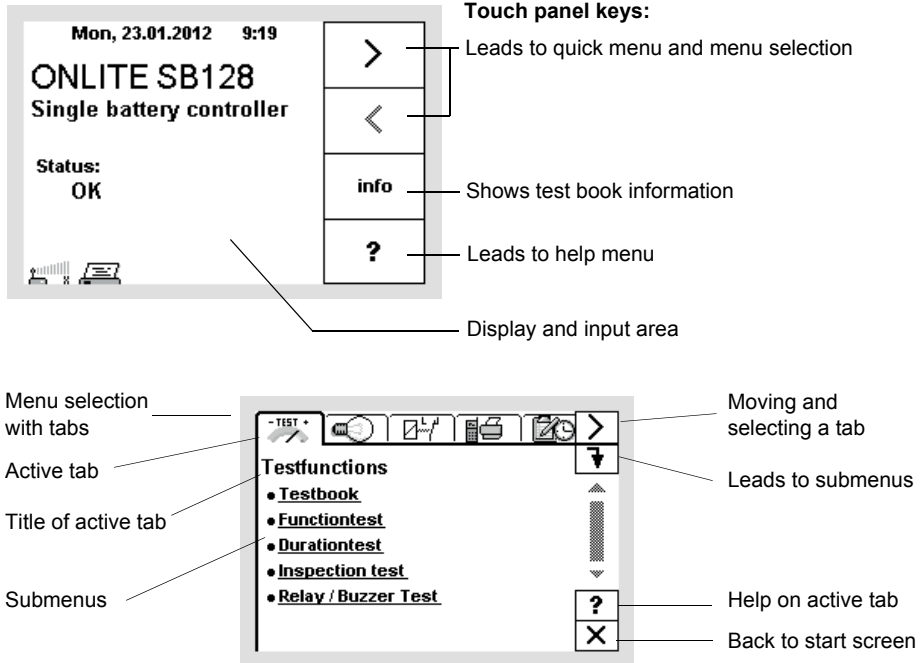
Note



We recommend to use only suitable pens for operating the touch panel. Otherwise the touch panel may become damaged.



4.2.1 Control keys on the touch panel



Graphically represented control keys (navigation and command keys, etc.) are available on the screen for operating the controller. Which control keys are actually available depends on the currently active menu.

The following navigation keys can be found on the right side of the screen:



Leads from the basic menu to the quick menu, and from there to the menu selection where this key is used to select the tab and the submenus.

Alternatively, the appropriate tab symbol (e.g. ) or the submenu symbol can be clicked.



Leads from the quick menu back to the start screen (basic display).



The down-arrow leads from the menu selection to the submenus of the tabs.



The up-arrow leads from the submenu back to the window on the next higher level.



While the basic display is shown, this key opens a window providing information on the ONLITE local SB 128 Controller. Here, you can call the help system. If a submenu is visible, the related help information is called.

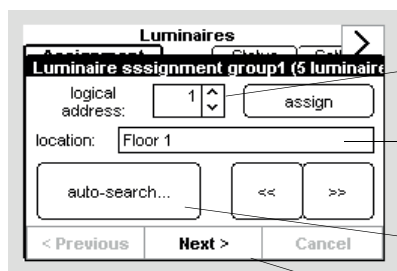


If failures occurred, the info key directly opens the test book. Here, details concerning the error reason and for locating the defective luminaire can be found.



Leads from anywhere directly to the basic display.

In the submenus, several control keys and input fields are available for data input and for the execution of various functions:

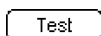


Numeric field with scroll key

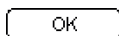
Text field for data entry

Command key for executing automatic search

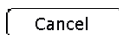
Command key



A command key ('test' in this example) immediately executes the displayed command.



Confirms entries or changes. All values in the current window are accepted and stored. The current window is closed.



Cancels the current procedure or closes the current window. The input or changes entered are not accepted and not stored.



Using the scroll-key, the values in a numeric field can be changed.



Clicking on a field bordered by a dotted line changes the value or opens a dialog window (e.g. date, time).



Group 1:

Clicking on a reference text (underlined text) opens the relevant submenu or its associated window.



Clicking on a device symbol (e.g. printer ) opens the associated submenu or window to parameterise or execute switching functions.

☐ Locate

Marking option fields selects or deselects the relevant options.

☒ Delete

FLOOR 1

Text can be entered in the text field. Clicking on the text field opens a keypad on the screen, which is used to enter the desired text.

Enter the text by pressing the appropriate keys.

Pressing the  key accepts the entered text. Use the **Esc** key to quit the keypad without accepting the input.

Esc	Floor 1														
q	w	e	r	t	z	u	i	o	p	←					
→	a	s	d	f	g	h	i	k	l	;					
↶	y	x	c	v	b	n	m	.	↵						
-	/														123

Pressing  toggles between capitals and small letters.

Esc	Floor 1														
Q	W	E	R	T	Z	U	I	O	P	←					
→	A	S	D	F	G	H	J	K	L	;					
↶	Y	X	C	V	B	N	M	.	↵						
-	/														123

The **abc** and **123** keys toggle between an alphabetic and a numeric keypad.

Esc	Floor 1														
\$		'	:	1	2	3	-	+	←						
[	]	{	}	4	5	6	*	/	:	↵					
<	>	\	=	7	8	9	!	?	→						
@	-	&	X	*	0	#									abc

▼ English

One of several options can be selected from the options list. Click on the arrow key to open the options list and select the desired entry by clicking on it.



Scroll bars for scrolling the screen.



4.2.2 LEDs on the device

LED "Mains/Netz"

LED on Mains supply available, everything OK.

LED flashes Function test or duration test is running.

LED "Failure/Störung"

LED on Failure.

A failure has occurred during a duration test or a function test. To eliminate a failure, the test has to be performed again with a positive result.

LED flashes	The ONLITE local SB 128 Controller is blocked, refer to section 6.1 on page 31.
-------------	---

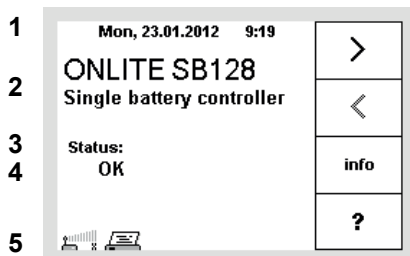


5 Main menu

5.1 Overview

The main menu shows the following information:

- 1 Date and time.
- 2 Device name (user definable).
- 3 Status of the monitored luminaires.
- 4 OK or failure info.
- 5 Symbolic representation of external devices (GSM module, printer).



5.2 Display

Line 1 shows the current date and time. The date and time values can be edited using the "Options" item in the "Configuration" menu.

Line 2 indicates the device name. It can be defined by the user in order to distinguish between several devices. The device name can be edited using the "Option" item in the "Configuration" menu and it is also transmitted when sending a SMS message.

Line 3 shows the result of the last performed test or the current system operating mode: function/duration/inspection test running, system/group no. blocked.

In line 4 an error message is shown if failures occurred during the last performed function test or duration test. The test logs can then be viewed in the test book.

Line 5 displays the symbols of the connected devices:



Printer



GSM module: The number of bars indicates the signal strength (max. 5 bars).

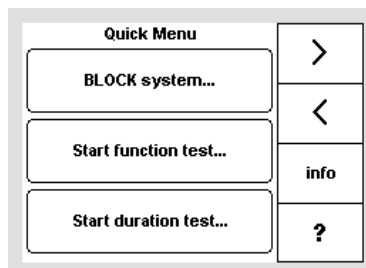


6 Quick menu

The quick menu can be accessed via the main menu using the "right" arrow button at the top.

It offers the possibility to:

- Lock the system.
- Start a function test.
- Start a duration test.

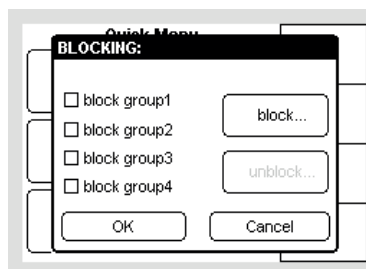


6.1 Block system

This function locks the system by sending a blocking command to all luminaires via the DALI bus (except to PC emergency luminaires and EMC module security luminaires).

Block system

When this key is pressed, a further screen is opened in which all groups together or individual groups can be locked. The selection is confirmed by pressing the OK key. The red "Failure/Störung" LED flashes.



Unblock system

When this key is pressed, a further screen is opened in which all groups together or individual groups can be unlocked. The selection is confirmed by pressing the OK key. The red "Failure/Störung" LED stops flashing.

Notes



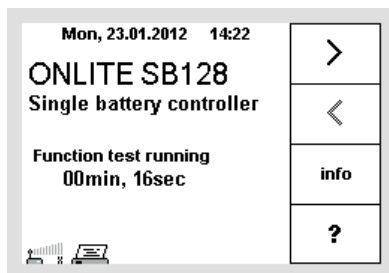
Locked luminaires do not switch to emergency mode in the event of a power fail!

When the system is locked, the other commands in the quick menu are disabled and the lock command is periodically sent to the DALI bus so that luminaires which had a power failure while locked remain locked (otherwise the emergency lighting electronic ballast would unlock when power is restored).



6.2 Start function test

This command starts a manual function test. The luminaires are tested during mains operation and battery operation. When the function test is completed, the controller switches back to operating mode "Mains operation". The result of the test: successful, faulty or cancelled, is recorded in the test book. For detailed information on the function test, refer to section 7.3 on page 35.



Start function test

Pressing this key starts the test and the display changes to the start screen indicating the progress of the test.

Cancel function test

Pressing this key terminates the test and the display shows the start screen.

Note



All other Quick menu commands are inactive while the function test is running.

6.3 Start duration test

This function starts a manual duration test. The batteries of all the connected emergency luminaires are discharged in order to test the specified nominal duration (autonomous time). The duration test lasts until the nominal duration is reached.

The test is cancelled if the cell-end voltage of the battery is reached and the deep-discharge protection responds. In this case, the "Battery fault" error message is displayed. If the duration test is completed, the luminaires switch back to mains operation. The result of the test: successful, faulty or cancelled, is recorded in the test book.

The duration test must not be started until all ONLITE local luminaires have been connected and their battery has been charged for at least 20 hours!

Start duration test Pressing this key starts the test and the display changes to the start screen indicating the progress of the test.

Cancel duration test Pressing this key terminates the test and the display shows the start screen.

Notes



Only in case of an automatic duration test:

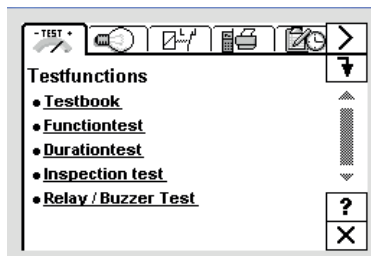
All other Quick menu commands are inactive while the duration test is running.

If the duration test of one luminaire cannot be started (battery not sufficiently charged), another duration test is triggered at the same time on the following day. This cycle is repeated again on the following day. If there is still a negative result for the duration test, this result is stored and the status is set.

7 Test functions

7.1 Overview

The **Test functions** menu is used to initiate the available system tests and to enter all parameters necessary to set up automatic tests. Events (system and error messages) as well as results of function tests and duration tests are stored permanently in the electronic test book (for a period of 3 years, even if power fails).



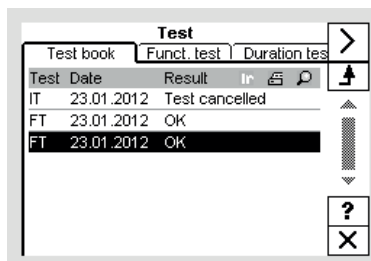
7.2 Test book

The test book stores all events and results of function tests and duration tests.



The control system lists all the entries (in chronological order) from the test book on the screen. The information can be scrolled through line by line using the scroll arrows.

 **Print:** Sends the currently selected test book entry to the specified printer. The print command does only work, if the ONLITE local SB 128 Controller is connected to a printer.



 **IrDA:** Exports the test book entries to reachable IrDA devices (e.g. Laptop, PDA). The function is executed by clicking on the "Ir" symbol. The IrDA functionality is described in detail in section 10.4 on page 55.

The following data can be transmitted:

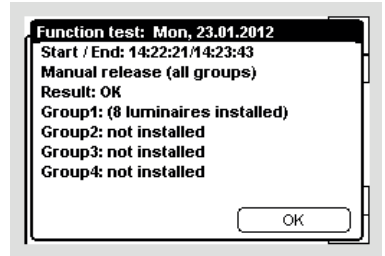
- Overview of executed tests.
- Results of the last function test or duration test.
- Results of a selected test.



 The detail view shows the start and the end time of the test, the reason for the test, the overall result and the errors that occurred for each luminaire.

The luminaires errors are summarised according to the group in which they are installed.

Additionally, the number of luminaires currently installed within the groups is displayed.



7.3 Automatic function test

The function test tests the emergency luminaires by briefly switching to emergency mode. A desired time and day can be programmed for function tests to be automatically carried out. These settings (day/time) can either be the same for all groups or entered separately for each group.

In case these settings are different for each group, each of them has its own tab. Manual starting the function test is recommended during initial commissioning or if new components are added to the emergency lighting system or other changes are carried out on the emergency lighting system (e.g. replacement of luminaires, changes to the configuration).

Notes



No automatic function test can be executed while the system is blocked or if a test is still running (e.g. after starting it manually). In this case, the automatic test is delayed by one day (until the set time of day is matching). An error message appears when attempting to start the test manually while the system is blocked.

Battery faults can only be eliminated by performing a "duration test".



Starting the function test

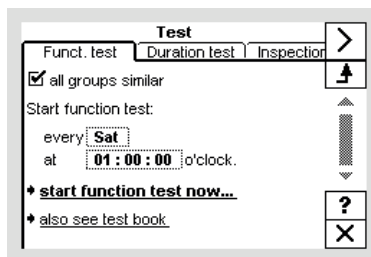
All groups similar: If this checkbox is selected, the adjusted time settings are applied to all groups.

Weekdays: Press on the field and select the desired day by marking the corresponding checkbox.

Time: Press on the field and edit the value using the provided arrow keys.

Start function test now: Press this key to immediately start the function test (duration: approx. 5 minutes).

See also test book: View the last function test entry by pressing this key (refer to section 7.2 on page 34).



Function test started

The following information is displayed while the function test is running:

- Start date and time.
- Type of activation:
"Manual release": manual test.
"Programmed time": automatic test.
- Progress of the running function test (indicated in hours and minutes).



Cancel test

Press this key to abort the running function test.

7.4 Automatic duration test

During the duration test, the batteries of all connected luminaires are discharged until their nominal operation time (between 1 and 3 hours, depending on the battery type) has elapsed. If the nominal operation time can not be reached, the error message "Battery fault" appears. The test is executed as long as the nominal operation time or the permissible limit operation time of the battery is exceeded (cut-off voltage reached or deep-discharging protection activated) or until the test is aborted manually.

To carry out duration tests automatically, a day, the desired months and the time can be programmed (e.g. at 23:00 on the 15th of January, April, July and October). These settings can either be the same for all groups or entered separately for each group (in this case each group has its own tab).

It can also be selected whether the duration test of the respective group is to be carried out for luminaires with even numbers and/or for luminaires with odd numbers.

Notes



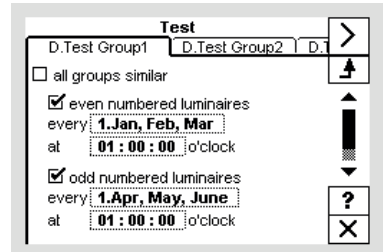
Do not perform the duration test during work periods / operation times and ensure that the batteries are re-charged in time before work / operation starts again.

The luminaires will only start the duration test, if their batteries are charged sufficiently.



Starting the duration test

All groups similar: If this checkbox is selected, the adjusted time settings and the selection of luminaires to be tested (even numbered / odd numbered) are applied to all groups. In this case, no further tabs are available for the other groups.



Even numbered luminaires, odd numbered luminaires:

Selecting these checkboxes sets whether the duration test is to be carried out for the luminaires with even numbers or for the luminaires with odd numbers. Both can also be selected.

Day, month: Press on this field and select the day using the arrow keys and the month(s) by marking the checkbox(es).

Time: Press on the field and edit the value using the provided arrow keys.

Start duration test now: Press this key to start the duration test immediately. Depending on the nominal operation time the test may last up to three hours.

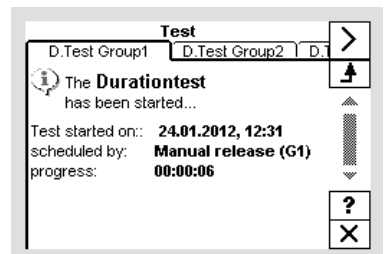
See also test book: View the last duration test entry by pressing this key (refer to section 7.2 on page 34).



Duration test started

The following information is displayed while the duration test is running:

- Start date and time.
- Type of activation:
"Manual release": manual test.
"Programmed time": automatic test.
- Progress of the running duration test (indicated in hours and minutes).



Cancel test

Press this key to abort the running duration test.



7.5 Inspection test

The inspection test initiates a duration test for all faulty luminaires.



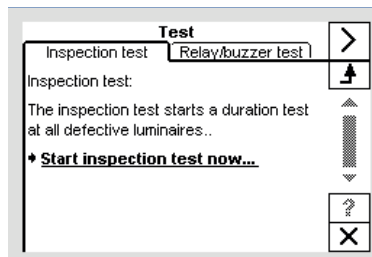
Start inspection test now...

Pressing this key starts a duration test for all luminaires which indicated an error or which were detected as faulty during a previous duration test.



Cancel test...

Pressing this key aborts the inspection test.

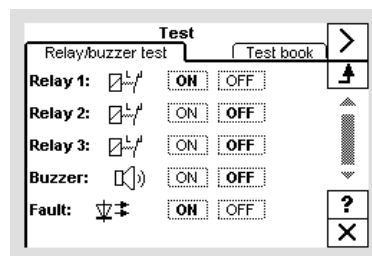


7.6 Relay / buzzer test



This menu shows the current switching status of the relays with the potential-free signalling contacts. For test purposes, the status of the relays can be changed manually (to test a remote display, for example), and furthermore the tone of the buzzer and the failure indication (red LED) can be checked.

By pressing **ON** or **OFF**, the controller immediately changes the switching status of the selected relay. The buzzer and the failure indication are switched on or off accordingly.



Note

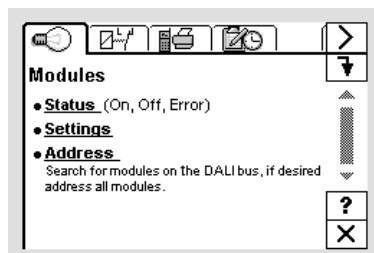


All relays return to the normal setting when exiting the menu.

8 Luminaires

8.1 Overview

The "Modules" menu can be used to view the status of all luminaires, to perform settings for individual luminaires or for the groups and to adjust the address assignment for the luminaires.



8.2 Luminaires status

The "Status" menu displays the current status of the luminaires. The status of all installed luminaires is queried cyclically. The arrangement corresponds to the logical addresses assigned during the addressing process (not to the DALI addresses in the ballasts).

Note



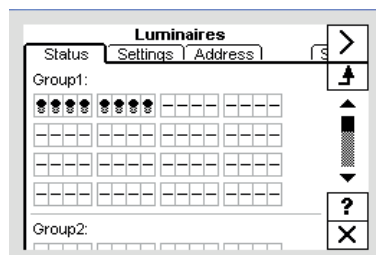
Only DALI emergency luminaires (device type 1) are displayed.



The luminaires are separately displayed according to the DALI group. The position of a luminaire, counted from left, is also its assigned logical address (first from the left is Luminaire 1, last from the left is Luminaire 64).

The following luminaires status are possible:

-  Switched on.
-  Switched off.
-  Defective.
-  Not available.
-  Test error.



-  Charging error.
-  Communication error.
-  Duration test delayed.
-  Test in progress.



8.3 Luminaires settings

In the "Settings" menu, additional information (location, info text) can be assigned to luminaires. Using the "Test" command the status of the luminaire can be checked immediately.

Notes



The assignment of the luminaires must be completed before defining the luminaires settings (refer to section 8.4 on page 42).

The operating mode can be set to "Maintained mode", "Non-maintained mode" or "Switched maintained light".

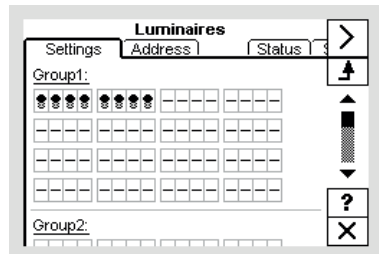
The display of the luminaires is identical to the display in the "Status" menu (refer to section 8.2 on page 39).



There are two possibilities to configure the luminaires:

- all luminaires in a group
(the existing settings of all the luminaires in the selected group are overwritten)
- each luminaire separately

To configure only one luminaire, press the corresponding luminaire symbol. If all luminaires within a group should have the same values, press the reference text (e.g. **Group1**).



Notes



Safety luminaires equipped with PC Emergency + EMC module can only be operated in maintained mode.

The feature "switched maintained light" is only available, if an ONLITE local Switch Module is installed. In the operating mode "switched maintained light" the pushbutton inputs act as follows:

- Pushbutton input S1 acts on group 1 or individual luminaires in group 1.
- Pushbutton input S2 acts on group 2 or individual luminaires in group 2.
- Pushbutton input S3 acts on group 3 or individual luminaires in group 3.
- Pushbutton input S4 acts on group 4 or individual luminaires in group 4.



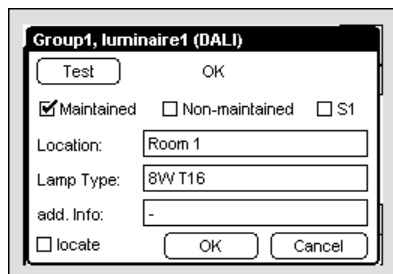
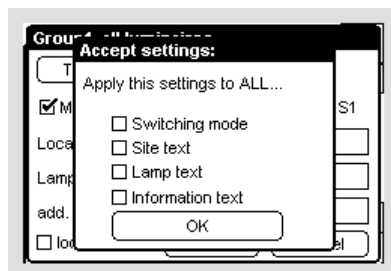
The first line displays the name of the group and the luminaire to be edited (or "all luminaires" if the entire group is selected).

- **Test:** This key can be used to test luminaires but also to locate them. When the "Test" key is pressed, the corresponding luminaire (or all luminaires in a group) is switched off and on.
- **Locate start/stop:** Using this key the localisation mode can be started and terminated. During localisation, the luminaire is periodically switched on and off every 2 seconds.
- **Location, Lamp Type, Info:** In these text fields, useful information about the luminaires can be entered, for instance, to identify the correct illuminant in case of replacement (max. 30 characters per line). If GSM notification is activated, this information is included in the SMS message in case of an error. An input window with a keypad appears when pressing the text field. Enter the desired text using the keypad.

In case settings (switching mode, location, lamp type, add. info) are performed for an entire group, the controller offers the possibility to apply only a part of these settings to all the luminaires in the group.

Therefore, when selected, any combination of the following settings can be transferred to all luminaires in the group:

- "Switching mode": Maintained, Non-Maintained or S1 (switched maintained).
- "Site text" refers to the "Location" field.
- "Lamp text" refers to the "Lamp type" field.
- "Information text" refers to the "add. Info" field.



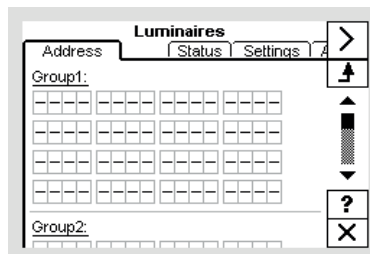
8.4 Luminaires setup

Using this menu, the connected luminaires are installed. During this process, a DALI address and also a logical address are assigned to each luminaire. This allows to locate the installed luminaires, to identify them in the luminaires list and to designate them.

New installation of a DALI group

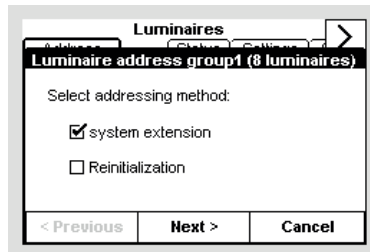


To install luminaires in a group, press the group name (e.g. **Group1**).



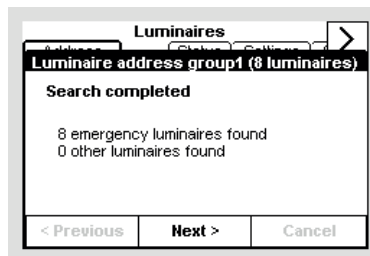
Now you can select between:

- **System extension:** Adding one or several luminaires without discarding the already existing luminaires addressing and info texts.
- **Reinitialization:** New addressing of all luminaires connected to the particular group. When selecting this option, already assigned luminaires are deleted and re-assigned.



When selecting "System extension", the systems checks the current luminaires installation prior to the actual search. All luminaires installed on the bus are searched.

Furthermore, it is checked whether there are luminaires with valid addresses installed on the bus but not present on the SB 128 Controller's list. If such luminaires are found, they are added automatically.



In case a part of the luminaires could not be found, a message appears asking whether the missing luminaires are to be removed from the list (only in case of emergency luminaires).



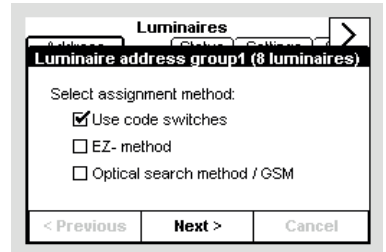
The ONLITE local SB 128 Controller now searches the selected DALI group for connected luminaires and displays the number of detected new luminaires. The system distinguishes between DALI emergency luminaires and other luminaires.

Selection of the assignment method



Select the assignment method:

- **Use code switches:** The luminaires are ordered in accordance with the encoding of the address switch on the emergency luminaires. This addressing method is possible only for the emergency luminaires with address switches.
- **EZ- method:** The luminaire to be addressed outputs its DALI address via the status LED (red/green flashing pattern). This address is defined in a plan. A logical address is subsequently assigned at the controller.
- **Optical search method/GSM:** A logical address can be assigned manually to each detected luminaire. If desired, this assignment can be done via the GSM module using a mobile phone (refer to section 10.2 on page 52).



Click on **Next** to assign the luminaires using the selected method. If "Use code switches" has been selected, the system executes the assignment automatically and then returns to the luminaires setup menu.

Note



Luminaires are not assigned if their code switches are set outside the valid range (1 to 64) or if the defined address is not unique. A dialog field appears displaying the number of non-assigned luminaires. During this period of time, the affected luminaires are blinking in order to locate them.

By selecting the "EZ- Method", the status indicator LED of each emergency luminaire starts flashing red/green according to a specific pattern.

For each luminaire, this flashing sequence has to be recorded and using the EZ PRO ADDRESS tool offered by Tridonic (Art. nr. 89899836), the DALI address can be determined.



Use the EZ PRO ADDRESS tool as follows:

- Start EZ PRO ADDRESS by simultaneously pressing the red and green buttons.
- For each emergency luminaire, introduce the flashing pattern by using the red/green buttons. At the end, the DALI address of the chosen luminaire will be shown on the EZ PRO ADDRESS display.
- Repeat the previous step to obtain the DALI address for each emergency luminaire in the system.

In this window a logical address can be assigned to each luminaire with a certain DALI address. During this process, all luminaires are switched off. The "assign" button will be inactive as soon as all the unaddressed luminaires have been assigned with a DALI and a logical address.

The screenshot shows a software interface titled 'Luminaires'. Below the title bar, there's a sub-header 'Luminaire address group1 (8 luminaires)'. The interface contains three input fields: 'logical...' with a value of 8, 'DALI address:' with a value of 0, and 'location:' with the text 'Floor 1'. To the right of the 'logical...' field is an 'assign' button. At the bottom of the window, there are three buttons: '< Previous', 'Next >', and 'Cancel'.



Press the **"Next"** button to save the sequence and the **"Finish"** button to finish the assignment process and save the settings.

Having selected "Optical search method/GSM", the next window appears.



In this window, the installed luminaires are ordered manually in the luminaire list. First, all luminaires are switched off. To assign the luminaires proceed as follows:

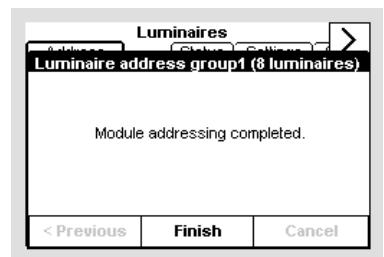
- Press **auto-search**. The luminaires of the selected group start lighting cyclically. The button changes from **auto-search** to **STOP**.
- Press **STOP** as soon as the luminaire you want to assign next lights up brightly. The cyclic lighting is interrupted and the button shows **auto-search** again.

The screenshot shows a software interface titled 'Luminaires'. Below the title bar, there's a sub-header 'Luminaire address group1 (8 luminaires)'. The interface contains two input fields: 'logical...' with a value of 1 and 'location:' with the text 'Floor 1'. To the right of the 'logical...' field is an 'assign' button. Below the 'location' field, there is an 'auto-search...' button and two arrow buttons '<<' and '>>'. At the bottom of the window, there are three buttons: '< Previous', 'Next >', and 'Cancel'.

-  The **logical address** indicates the position of the luminaire in the luminaire display (status window ...). It can be edited using the numeric field located left of the **assign** key. When pressing the **up/down** keys, the logical address is set to the next free higher/lower address.
-  If the **STOP** key is pressed too late during the automatic search, the luminaires can be illuminated in individual steps using the << and >> keys. Generally the luminaires can also be ordered with these two keys without using the automatic search function.
-  In the "location" text field information on the position of the luminaires can be entered.
-  Press the **assign** key as soon as the desired luminaire is selected and lights up. Doing so, this luminaire is inserted into the list with the selected logical address. This position is displayed on the left of the **assign** key.

In the figure shown above, pressing the **assign** key would insert the luminaire into the list as first luminaire. Then, the next free logical address is displayed. Repeat these steps for all remaining luminaires until all luminaires are arranged in the desired order.
-  Having assigned all luminaires within the group, the order has to be saved. For that purpose press **Next**.
-  Now press **Finish** in order to complete the assignment and to save the settings.

If not all luminaires have been assigned, a message dialog appears asking whether the remaining luminaires should be assigned automatically. This way, the luminaires are assigned in the order in which they are detected to the next free logical addresses.
-  Repeat the steps described above for the remaining DALI groups.



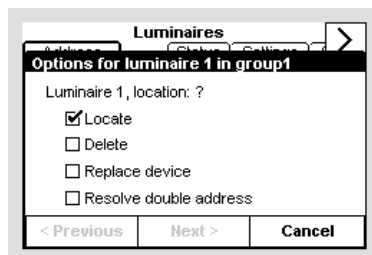


Setting up individual luminaires



Selecting an individual luminaire in the setup window (instead of an entire group as described in the previous section) calls the window shown on the right.

- **Locate:** During localisation, the luminaire is periodically switched on and off every 2 seconds.
- **Delete:** Deletes the luminaire permanently from the bus and from the luminaires list of the ONLITE local SB 128 Controller. This also deletes the DALI address stored in the ballast as well as the information stored in the ONLITE local SB 128 Controller's luminaires list (parameters, info texts).
- **Replace device:** If a luminaire on the bus fails and is replaced by another, all settings of the old luminaire can be transferred to the new one here. A system extension search is carried out and then the "assign" dialog window for this logical address appears. The displayed logical address can not be edited during replacement.
- **Resolve double address:** Using this item, the conflict caused by a double assignment of the same DALI address to two luminaires can be eliminated (this may happen when adding an already addressed luminaire). The conflict is reported in the form of a communication error in the status window. The selected luminaire(s) will be deleted, a system extension search is performed and then the assignment dialog is called for this single luminaire. All settings previously made for this luminaire are still valid.



8.5 Setting up groups with ONLITE local Extender

Notes



A maximum of 3 ONLITE local Extender modules can be connected to the DALI bus B (terminals B-D1, B-D2). The DALI bus A (terminals A-D1, A-D2) is not designed for the connection of extender modules. If an ONLITE local Extender module is connected to DALI bus B (i.e. terminals B-D1, B-D2), all luminaires connected to this DALI bus can only be accessed via the extender module.

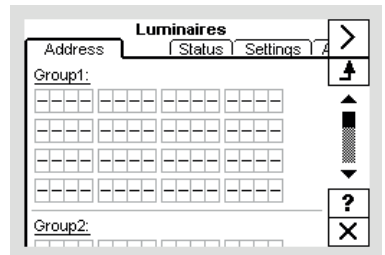
It is not allowed to directly connect luminaires and ONLITE local Extender modules to DALI bus B (terminals B-D1, B-D2).

New installation of a DALI group



To install the ONLITE local Extender modules connected to DALI bus B, one of the group names Group 2 - Group 4 should be pressed, e.g. **Group2**.

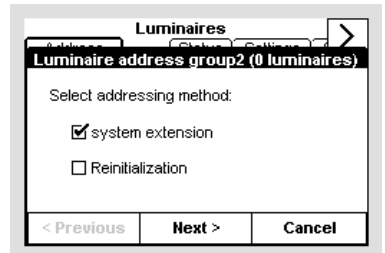
Use the scroll keys visible on the right hand of the screen to display the groups 2 to 4.



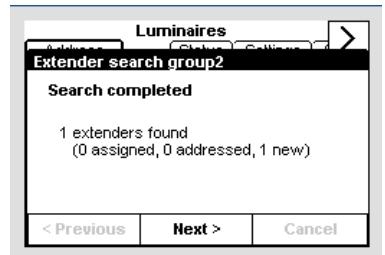
Similar to the luminaires setup menu it is possible to select between:

- **System extension** or
- **Reinitialization**.

The system always searches for extenders first. They are found in the next step.

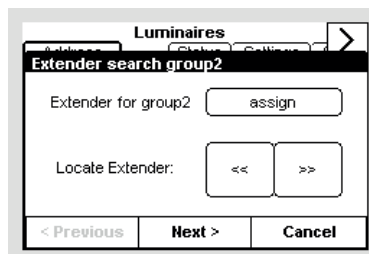


After a successful search, none of the luminaires connected to the ONLITE local Extender module are lighting at first.

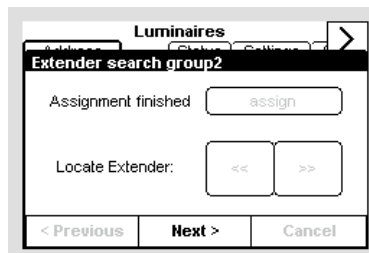


When assigning the individual ONLITE local Extender modules, all luminaires connected to the selected ONLITE local Extender light up.

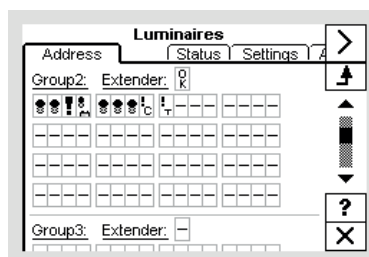
There are no restrictions which group (group 2 to 4) should be assigned to which Extender.



Finishing the assignment.

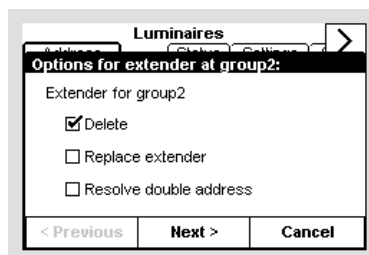


If an ONLITE local Extender module is connected, the additional key **Extender** is available.



Pressing the **Extender** key opens the window shown here.

- **Delete:** Deletes the ONLITE local Extender module permanently from the bus and from the controller's list.
- **Replace extender:** If an extender on the bus fails and has to be replaced by another, the logical address of the old extender can be assigned to the new one by using this function.
- **Resolve double address:** Using this item, conflicts caused by double addressing of extender modules can be eliminated.



Assigning the luminaires order using a GSM mobile phone

Instead of setting up luminaires using the touch panel control keys, a GSM mobile phone can be alternatively used. The steps above should be followed but using the mobile phone buttons for data input.

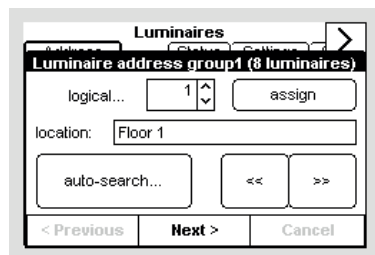
A prerequisite for this method is that an ONLITE GSM module is connected to the ONLITE local SB 128 Controller.



Prior to luminaires setup, the number of the GSM modules should be dialed by using a tone dialing phone. Instead of using the touch panel keys, the phone buttons can serve to setup the luminaires.

The following mobile phone buttons correspond to the keys on the touch panel:

Touch panel	Mobile phone
assign	Button 1
Start / Stop	Button 5
<< back	Button 4
>> next	Button 6



Notes



The ONLITE GSM module confirms the successful connection establishment by an acoustic signal. Then, a PIN code has to be entered (refer to section 10.2 on page 52). This is additionally indicated by the flashing green LED on the ONLITE local GSM module.

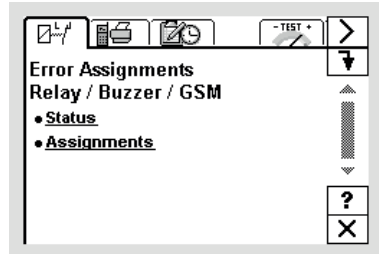
The setup of the luminaires has to be started directly at the ONLITE local SB 128 Controller. Access via GSM mobile phone is only possible while the assignment dialog is active. All other steps during the setup procedure have to be performed directly at the ONLITE local SB 128 Controller.



9 Message assignments to relays / buzzer / GSM

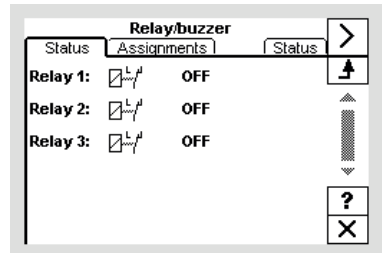
9.1 Overview

This menu displays the current status of the relays and allows the assignment of the various system status to the relays, the buzzer or to the messages output via the ONLITE GSM module.



9.2 Status

This menu shows the current status of the relays with the potential-free signalling contacts.



9.3 Assignments

In this menu, the assignments of the system status (which only change as a result of a function or duration test carried out) to the signalling contacts of the relays and to the buzzer, as well as for transmission to the GSM mobile telephone network by text (SMS - Short Message Service) are defined. The relays switch from "de-energised" to "energised" if a message assigned to them occurs.

A signal sounds at the buzzer and a text message is sent to a GSM mobile telephone in the case of GSM.

Message types can be configured for the following system status:

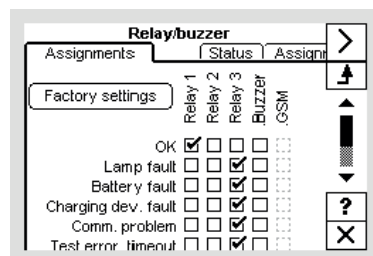
- Mains operation (no tests are in progress and there are no errors).
- Function test or duration test is currently running.
- During the last test a lamp fault, battery fault or ballast fault occurred.
- Communication problem on the DALI bus.



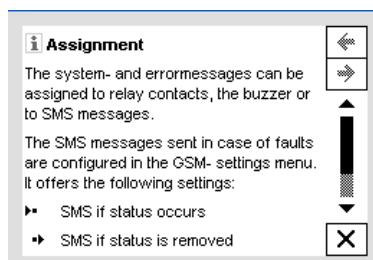
Assign the available messages to the desired message types by marking the appropriate checkboxes. The message types can be combined as desired for each message (from checking none to checking all). This way, you can activate a remote display via one of the relays, trigger the buzzer and/or send a corresponding SMS message in case of a battery fault, for instance.

For the configuration of SMS messages, several options are available. The chosen SMS configuration is indicated by an additional symbol right next to the corresponding checkbox. The help screen represented in the right-hand figure shows the meanings of the different symbols.

Factory settings: Press this key to reset the message assignments to the factory settings (according to VDE 0801).



Assignments	Status	Assign
Factory settings		
OK	☒ Relay 1	
Lamp fault	☐ Relay 1	
Battery fault	☐ Relay 1	
Charging dev. fault	☐ Relay 1	
Comm. problem	☒ Relay 1	
Test error timeout	☒ Relay 1	



Assignment

The system- and error messages can be assigned to relay contacts, the buzzer or to SMS messages.

The SMS messages sent in case of faults are configured in the GSM- settings menu. It offers the following settings:

- ▶ SMS if status occurs
- ▶ SMS if status is removed

Note



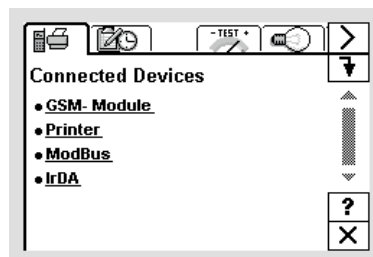
When using a remote display for emergency lighting systems, pay attention to national guidelines and regulations.



10 Connected devices

10.1 Overview

This menu provides the possibility to configure the optional components for the ONLITE local SB 128 Controller.



10.2 ONLITE GSM module

In order to establish a connection to a mobile network, an activated SIM card has to be inserted into the GSM module. Detailed information about installing and commissioning the ONLITE GSM module can be found in the relevant installation and operating instructions.



Version: Displays the version number of the GSM module.

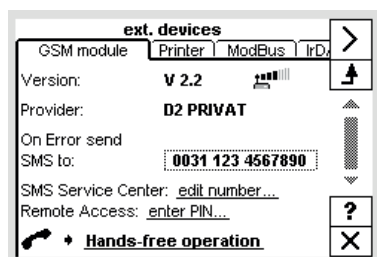
Provider: Indicates the provider.



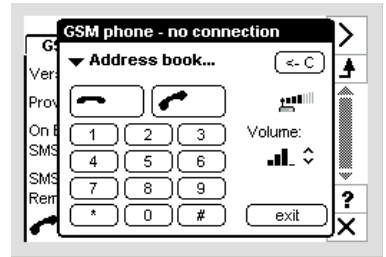
On Error send SMS to: Press this field to enter a telephone number using the keypad. If configured accordingly, an SMS is sent to the entered number in the event of a failure.



Hands-free operation: Allows you to talk to colleagues while installing the system, for example.



-  **Volume:** Press the up/down keys to adjust the volume. The current volume is indicated by bars.
-  Important phone numbers can be stored permanently in an **address book**.
-  Numbers can either be selected from this list or entered directly using the numeric keys.
-  To **establish a connection**, enter the desired number and then press the unhook key.

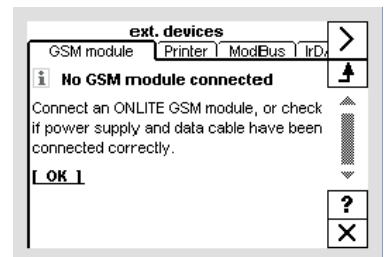


Note

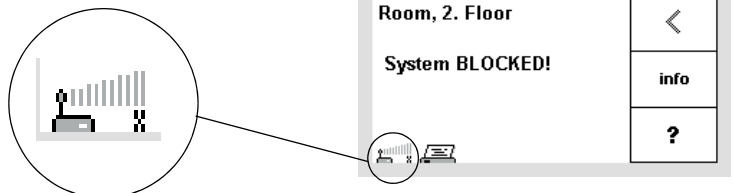
-  If the GSM connection still exists when pressing the "exit" key, the user is asked whether the connection should be kept (e.g. for speaking with the colleague while assigning) or terminated.

The ONLITE local SB 128 Controller continuously checks the state of the ONLITE GSM module. If required, the following notes are displayed instead of the setup window shown above.

-  **No GSM module connected:**
There is either no GSM module available or it is connected improperly (data lines, power supply). After the fault has been cleared, the connection to the GSM module can be established by pressing the **OK** key.

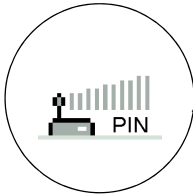


-  Basic display if no GSM module is connected.

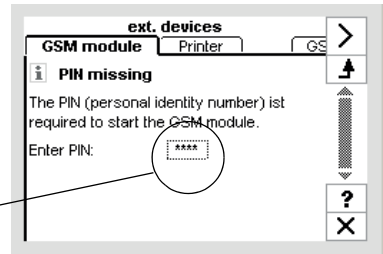
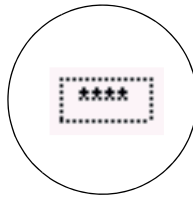




Basic display if the PIN has not yet been entered.



Enter PIN: Press the "PIN code" field in order to enter the numeric SIM card code via the keypad. The code is displayed hidden (****).



Notes



Ensure that your provider supports the SMS service and that the receiving telephone is able to receive SMS messages.

Some SIM cards are protected by a PIN code. In this case, you have to enter the PIN code via the controller.



In order to activate remote control, a PIN code has to be defined. This PIN code has to be entered on the calling mobile phone. Remote maintenance is allowed, if the entered PIN code is correct.

10.3 Printer

The ONLITE IR printer is a portable thermal printer used to print out the test logs recorded by the controller and the system current configuration. Starting with software version 2.30 and hardware version A2 of the SB 128 Controller, the new IRDA printer can be used.

The printer functions bidirectionally. It improves the transfer protocol and therefore, the infrared transmission becomes more interference-resistant.

Detailed information regarding the ONLITE IR Printer installation can be found in the printer's operating instructions.

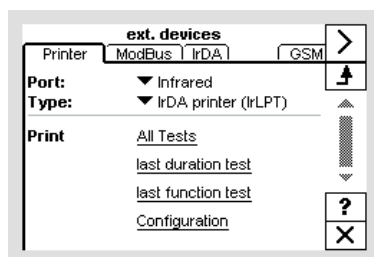


Port: Displays the used interface.

Type: Displays the selected printer driver.
The printer can be chosen from the combo box.

Print:

- All Tests: Prints all stored test results.
This function is only available, if the printer type is set to "IrDA printer (IrLPT)".
- last duration test and last function test:
Prints the latest test results.
- Configuration: Prints the current configuration of the ONLITE local SB 128 Controller.



10.4 IrDA interface

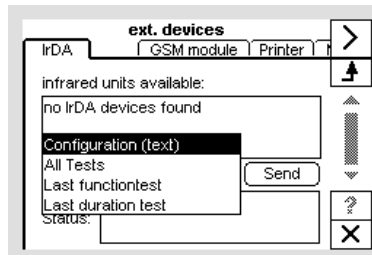
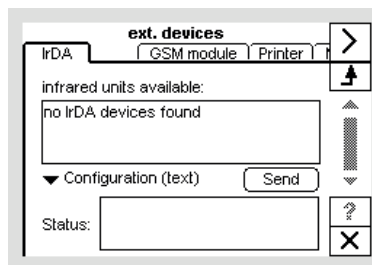
The ONLITE local SB 128 Controller is equipped with an IrDA interface. To open the IrDA menu, open the "Connected Devices" menu (refer to section 10.1 on page 52) and click on "IrDA".



The field **infrared units available** displays the IrDA device that is currently connected to the ONLITE local SB 128 Controller.

Configuration (text): The information to be transmitted can be selected by clicking on "Configuration (text)":

- All tests: Transmits an overview of the executed tests.
- Last function test and Last duration test: Transmits the latest function and duration test results.

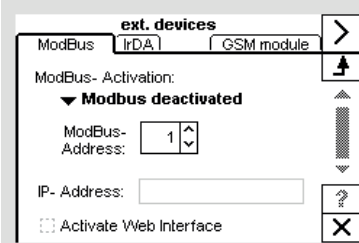


10.5 ModBus

The ModBus interface allows networking of the ONLITE local SB 128 Controller, e.g. with the GO-ON package. To open the ModBus menu, open the "Connected Devices" menu (refer to section 10.1 on page 52) and press "ModBus".



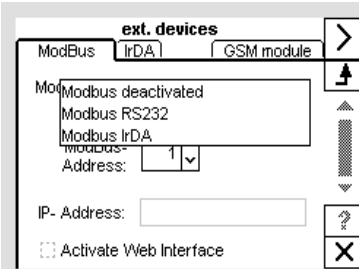
ModBus address: In this field, the ModBus address can be set.




ModBus activation: Activation of ModBus via RS 232 or IrDA interface or ModBus deactivation.



For the connection of the GO-ON package to the ONLITE local SB 128 Controller, the ModBus has to be set to "ModBus RS 232".





11 System (equipment) configuration

11.1 Overview

In the "Configuration" menu the display language, the date and time can be selected, display settings can be performed and also the password protection can be activated.



11.2 Options

This menu is used to set the display language, the time and the date.

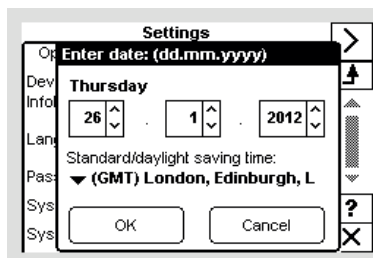
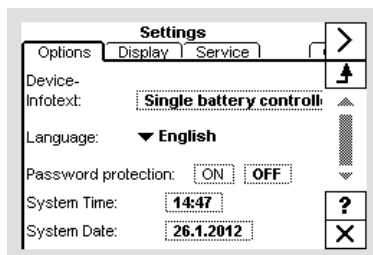
 **Device-Infotext:** Press the text in order to edit the device designation.

With the help of the device designation the ONLITE local SB 128 Controller devices can be distinguished. It is visible in the main menu and used within SMS messages.

 **Language:** Press the options list and select the display language. The following languages are available: German, English, French, Italian, Spanish and Dutch.

 **Password protection:** Password protection can be enabled or disabled by pressing the ON or OFF key. The selected function is shown in bold. When the ON key is first pressed, the user is prompted to enter a password. If the password is forgotten, the password protection can be disabled at any time using the security password "ONLITE".

 **System time, System date:** Press the appropriate value to set the time and date. A dialog field appears where you can set the desired values using the arrow keys. In addition to the date, the daylight saving time can also be configured.



The following time zones are available:

- GMT (London, Edinburgh, Lisbon, ...).
- GMT + 1h (Brussels, Berlin, Vienna, Zurich, ...).
- GMT + 2h (Bucharest).
- GMT + 2h (Helsinki, Kiev, Riga, ...).
- GMT + 2h (Athens, Istanbul, Minsk, ...).

11.3 Display

When setting up the display, the brightness and contrast can be set and the coordinates of the touch panel can be recalibrated.



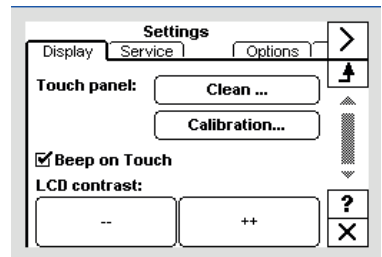
Touch panel Clean: Press this key before cleaning the touch panel with a soft cloth. The touch panel is deactivated for 20 seconds.



Touch panel Calibration: Press this button to re-calibrate the touch panel coordinates. In the following dialog you have to press 3 target points (center, top left corner, bottom right corner) to finish the adjustment.



LCD contrast: Pressing the keys -- or ++ reduces/increases the display contrast. Changes are immediately visible.

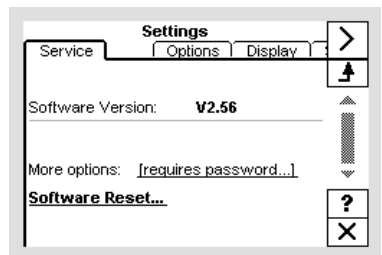


11.4 Service



Software Version: Displays the version number of the currently running software.

More options: A special password is required to access these options. They are not required during normal operation.







12 Error checklist for luminaires operated on an SB 128 controller

12.1 Using the error detection tables

Proceed as follows when using the error detection tables:

1. Determine the module type of the luminaire. The checklist applies to the following modules type:
 - ES-IF emergency lighting unit.
 - EM-IF emergency lighting unit.
 - ComboConnect emergency lighting unit.
 - EM-PRO EZ2 emergency lighting unit.
 - EM-PRO EZ3 emergency lighting unit.
 - EM POWER X LED emergency lighting unit.
 - EM-PRO EZ emergency lighting unit.
2. Go to the subchapter describing the problem. The following errors are analyzed in a detection table:
 - Luminaire cannot be found during re-initialization or system extension.
 - Communication error of luminaire in operation.
 - Luminaire is reporting a lamp error.
 - Battery error message.
 - Charging error message.
 - SB 128 various error messages.
3. Search the problem in the first column: **Possible points for analysis** and go through this column from the top to the bottom.
4. Isolate the error by means of further measurements and checks and search it in the second column: **Analysis**.
5. Eliminate the error with the help of the last column: **Possible steps for correction**.
6. If the error could not be removed go through the list again.

12.2 Luminaire cannot be found during re-initialisation or system extension

Possible points for analysis	Analysis	Possible steps for error correction
Check luminaire	Luminaire available in field level.	Check whether luminaire is available in the field level.
	Lamp/LED strips OK	Check and change lamp/LED if necessary.
	Luminaire connected to correct group.	Check wiring in field level and correct if necessary - responsible for this: usually electricians.
	Extender has no address.	Address extender.
Luminaire does not blink when the entire group is localised	No DALI voltage available on the corresponding emergency lighting unit. DALI line is interrupted or short-circuited.	Correct interruption or short circuit of DALI line. Check whether a DALI power supply exists after repeater.
	The DALI line is too long or too thin. For groups with an extender, check the line length: • from SB 128 to extender and • from extender to last luminaire or repeater in the group • from repeater to last luminaire on the group Note specifications: • up to 100 metres line length: min 0.5 mm² • 100-150 metres line length: min 0.75 mm² • over 150 metres line length: min 1.5 mm² • max. 300 metres line length	1. Use a larger line cross-section. 2. Reduce the line length.



Possible points for analysis	Analysis	Possible steps for error correction
Luminaire blinks when the entire group is localised (forward communication possible)	Note: Blinking patterns for emergency lighting units individually addressed when localised: • ES-IF, EM-IF and EM-PowerPack blink with the lamp if L' is on. • EM-PRO and EM-PRO EZ blink with the LED. • ComboConnect, EM-PRO EZ2 and EM-POWER LED blink with the LED if L' is off and blink with the lamp if L' is on. • ComboConnect, EM-PRO EZ2 and EM-POWER LED always blink with the LED group-wide. Double addressing possible.	eD devices are: • ES-IF, EM-IF • Standard DALI devices are: • EM-PRO, EM-PRO EZ, EM-PRO EZ 2, ComboConnect, EM-POWER LED and Emergency PowerPack
	Double addressing possible.	Use the controller to correct double addressing. Select corresponding luminaire in the "Setup" menu; select "Correct double addressing".
	DALI voltage is too low. Note: • DALI voltage on output of SB 128 controller: approx. 15 V DC • Maximum permitted voltage drop at last DALI subscriber on a DALI branch: 2 V DC • High level: 9.5 V to 22.5 V • Low level: -6.5 V to +6.5 V	1. Check DALI voltage on SB 128 controller, local check extender, local check repeater and emergency lighting unit (12-16 V DC). 2. SB 128 controller, local check extender or local check repeater have no power supply or are faulty. 3. Line is too long. 4. Line cross-section is too small. 5. Line resistance is too high > 8 ohm 6. Too many DALI loads
	Ballasts or components built into the luminaires are not approved for use.	Replace devices with components that have been approved for use by the manufacturer.
	Measurements on the luminaire.	1. Measurement of DALI voltage 2. Measurement of line resistance for the luminaire on the SB 128 controller, local check extender or local check repeater. 3. Check internal wiring of luminaire. 4. Check electronic ballast settings.
Communication error message	Double addressing possible.	Use the controller to correct double addressing. Select corresponding luminaire in the "Setup" menu; select "Correct double addressing".
	Communication error due to incorrect type of output; EM-PRO should report as a standard DALI device. Certain devices report as eD devices.	Update SB 128 to the last valid version of software. Then implement system extension.
	ES-IF communication error (8 W rescue and safety luminaires).	These luminaires always report a communication error in emergency mode.
If no steps result in correction of the error, change the corresponding component.		

12.3 Luminaire is reporting communication error during operation

Possible points for analysis		Analysis	Possible steps for error correction
Check luminaire		Luminaire available in field level.	Check whether luminaire is available in the field level.
		Luminaire connected to correct group.	Check wiring in field level and correct if necessary - responsible for this: usually electricians.
Communication error message		No DALI voltage available on the corresponding emergency lighting unit. DALI line is interrupted or short-circuited.	Correct interruption or short circuit of DALI line. Check whether a DALI power supply exists after repeater.
		The DALI line is too long or too thin. For groups with an extender, check the line length: - from SB 128 to extender and - from extender to last luminaire or repeater in the group - from repeater to last luminaire on the group	1. Use a larger line cross-section. 2. Reduce the line length.
		Note: Blinking patterns for emergency lighting units individually addressed when localised: • ES-IF, EM-IF and EM-PowerPack blink if L' is on. • EM-PRO and EM-PRO EZ blink with the LED. • ComboConnect, EM-PRO EZ2 and EM-POWER LED blink with the LED if L' is off and blink with the lamp if L' is on. • ComboConnect, EM-PRO EZ2 and EM-POWER LED always blink with the LED group-wide.	eD devices are: • ES-IF, EM-IF Standard DALI devices are: • EM-PRO, EM-PRO EZ, EM-PRO EZ 2, ComboConnect, EM-POWER LED and Emergency PowerPack
		Luminaire blinks when the entire group is localised. (forward communication possible)	1. Check status LED on the luminaire. 2. Check that mains supply is available to luminaire. 3. Mains supply is available to luminaire, LED and lamp off - change electronic ballast.
		If the luminaire blinks when the group is localised and the check of the status LED produces no result, complete the points to the right and then test.	1. Connect DALI USB to the relevant group of the SB 128. 2. Start LUXIMATE Administrator or Tridonic configTool for DALI bus server. 3. Query luminaire via status query (detailed DALI information - see knowledge base Tips & Tricks > Meaning of bit) or via "Lamps" menu > Settings > Query test. No response for luminaire on bus visible - change emergency lighting unit. 4. No response of corresponding luminaire on bus visible - change emergency lighting unit. 5. Response: framing error (telegram collision), double addressing very probable Use the controller to correct double addressing. Select corresponding luminaire in the "Setup" menu; select "Correct double addressing".
	Communication error due to incorrect type of output; EM-PRO should report as a standard DALI device. Certain devices report as eD devices.	Update SB 128 to the last valid version of software. Then implement system extension.	
	ES-IF communication error (8 W rescue and safety luminaires).	These luminaires always report a communication error in emergency mode.	



12.4 Luminaire is reporting lamp error during operation

Possible points for analysis	Analysis	Possible steps for error correction
Check luminaire	Luminaire available in field level. Luminaire connected to correct group.	Check whether luminaire is available in the field level. Check wiring in field level and correct if necessary - responsible for this: usually electricians.
Lamp error message	Lamp/LED strips OK?	1. Check and change lamp/LED if necessary. A function test is then required. - Test successful: no further measures; - If not OK, see Point 2. 2. If function test not OK, follow same procedure as previously described, but with another (second) lamp. - Test successful: no further measures; - If not OK, see Point 3.a.- d. 3. a.) 8 W luminaire - change luminaire or use exchange kit b.) Change emergency lighting unit c.) Change electronic ballast d.) Change LED unit (EM-POWER LEDxx) Note: Record in test book required.
	Lamp dark.	1. Check switching mode: non-maintained; maintained or Sx. 2. Connect LED properly. 3. Correct LED converter installed (one/two lamps, power?)



12.5 Luminaire is reporting battery error

Possible points for analysis	Analysis	Possible steps for error correction
Check luminaire	Luminaire available in field level.	Check whether luminaire is available in the field level.
	Charge phase connected.	Check luminaire wiring.
	Battery connected.	Check luminaire wiring.
Battery error message	Measurement of battery voltage - see battery set.	1. If battery voltage is: a.) not OK: change battery set b.) OK: conduct duration test - see also Point 2
	Conduct duration test.	2. Conduct duration test: a.) No error message: OK b.) Battery error again: change battery set: Conduct duration test again (observe charge time of 24 hr)
	Conduct one more duration test.	3. Battery error again: a.) Conduct one more duration test b.) Error still exists - change emergency lighting unit. Note: This is probably a temperature problem - observe luminaire specifications.

12.6 Luminaire is reporting charging error

Possible points for analysis	Analysis	Possible steps for error correction
Check luminaire	Luminaire available in field level.	Check whether luminaire is available in the field level.
	Charge phase connected.	Check luminaire wiring.
	Battery connected.	Check luminaire wiring.
Charging error message	Error: "Charging device failure" (Detailed DALI information - see knowledge base Tips & Tricks > Meaning of bit)	1. Change emergency lighting unit - record in test book required. a.) Conduct duration test - observe charge time of 24 hr. Note: This is probably a temperature problem - observe luminaire specifications.



12.7 Various SB 128 error messages

Possible points for analysis	Analysis	Possible steps for error correction
Function test could not be started	Emergency mode is on.	Exit emergency mode. Start function test again.
Duration test could not be started.	Emergency mode is on. Batteries not charged (100%) Possible cause: function test conducted previously emergency mode several hours before	Exit emergency mode. Start function test again. Check battery charging. (Detailed DALI information - see knowledge base Tips & Tricks > Meaning of bit)
Function test error	Start function test again	1. Function test finished with no error messages - everything OK. 2. Function test error occurs again - change emergency lighting unit. (Record in test book required.)
Duration test error	Start inspection test	1. Inspection test finished with no error messages - everything OK. Note: Batteries must be completely charged (emergency lighting unit supplied with mains power for at least 24 hr without interruptions). 2. Inspection test error occurs again - change emergency lighting unit. (Record in test book required.)
Display of SB 128 controller and luminaire status LED do not match.	Test LED wiring. Conduct function test again.	Correct LED wiring if necessary. Display of controller and status LED identical: YES - everything OK. NO - change emergency lighting unit (record in test book required).
	ComboConnect emergency lighting unit error	Occasionally no lamp error message (status LED on the luminaire green) ComboConnect emergency lighting unit error - not reproducible 100% of the time - change device (record in test book required)
	Display battery error for SB 128 - but luminaire OK	A battery error will remain for an SB 128 luminaire in future until an inspection or duration test has been started, causing an inconsistency between the luminaire and SB 128. Background: A luminaire battery error always causes a test sum error with battery error. This can only be corrected by an inspection or duration test. However, if the battery error is resolved in the meantime and a function test is conducted, the luminaire is OK. The inspection test does not start the test for this luminaire. Before the inspection test was introduced, this was not a problem, as the sum error for the battery error could only be corrected by a duration test and this happened to all luminaires.

