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luxCONTROL

DSI-SMART Programmer

DSI-SMART Programmer (Software Version 2.01)

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1. General

The DSI-SMART Programmer (software version 2.01) enables parameter settings to be made on the DSI-SMART or DSI-SMART PTM unit and the current stored parameters to be displayed.

In conjunction with the DSI-SMART PTM unit the DSI-SMART Programmer offers the following additional functions:

- Monitoring of system parameters such as the current measured LUX-value
- Remote control (switching the lighting system on and off)
- Commissioning test

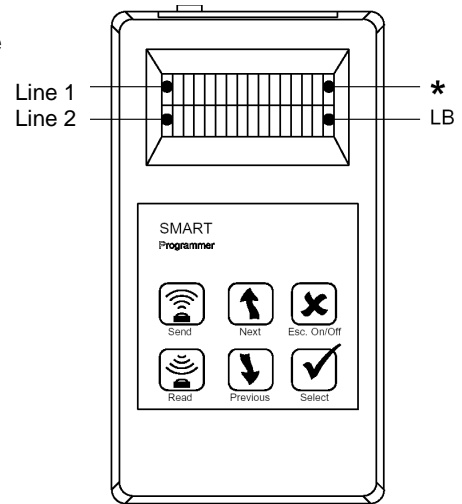


1.1 Overview of the DSI-SMART Programmer

The DSI-SMART-Programmer has 6 pushbuttons for accessing the menus. The menus are in English.

Display:

The first line of the LCD display shows the current menu option. The second line, the status line, shows the possible settings for this menu option. This line is used during data transmission to display the current status and any error messages.



Pushbuttons:



Esc. On/Off

Press briefly to switch the DSI-SMART Programmer on. Hold down to switch the Programmer off. Briefly pressing this pushbutton when the DSI-SMART Programmer is switched on takes you to the next higher menu option.



Select

Pressing the "Select" button selects the menu shown on the display.



Next Previous

Use the "Next" and "Previous" buttons to navigate the various settings in the selected menu option. Holding down the buttons automatically scrolls through the settings.



Send

The "Send" is used to transmit the data to the DSI-SMART or DSI-SMART PTM



Read

The "Read" button loads the current settings of the DSI-SMART or DSI-SMART PTM into the DSI-SMART Programmer.

2. Programming the main parameters

2.1. User-definable parameters

DSI-SMART and DSI-SMART PTM have the following user-definable parameters:
 The values shown in bold are the factory default settings.

Parameter	Range Factory setting	Description
light-level	1-100/max/man 70	Light level in steps from 1 to 100. The "max" option lets you set the units at maximum output. (DSI 255) "man" indicates whether the control value has been overwritten with the SET functions of the SMART controller.
time delay	30 s-60 min/con 20	Delay before switching off after the last detection of movement. The options are as follows: 30 seconds, 1, 2, 3, 5, 10, 15, 20, 30, 45 and 60 minutes, and "con" (continuous)
when vacant	off 30 s-60 min/con	The "off" setting causes the luminaire to switch off at the end of the switch-off delay. The "low" setting causes the luminaire to fade to the "sec. Level" parameter and switch off only at the end of the "second" delay set. The options are as follows: off, 30 seconds, 1, 2, 3, 5, 10, 15, 20, 30, 45 and 60 minutes, and continuous ("never OFF" function)
sec. level ¹	1-100 1	Second light value to which the system fades at the end of the switch-off delay. (In connection with the "when vacant" parameter ²)
P.I.R	active inactive off only	The "active" setting switches the light on or off automatically depending on whether or not there is someone in the room. With the "inactive" setting the DSI-SMART, in combination with "time delay continuous", can be used only for controlling the light level. In the "off only" setting the light has to be switched on manually (switch, remote control) but is switched off by the motion sensor.
bright-out	yes no	The "yes" setting switches the light off as soon as the light value exceeds 150% of the control value for more than 10 minutes. If the actual value falls below 100% the light is switched on again. In the "no" setting the luminaires remain at the minimum light value.
Power up	on off	In the "on" setting the luminaire switches on after a power outage. In the "off" setting the luminaire does not switch on after a power outage. After 15 seconds the motion sensor is active again.
10% start ²	on off	In the "on" setting the lamps are started at 10% fade value. In the "off" setting the lamps are started at 1% fade value.
hold overwrite	on off	In the "off" setting the DSI-SMART is reset to automatic mode when the control value is overwritten with the SMART controller or with the switch after an on/off cycle initiated by a movement interruption (end of delay time). If "on" is selected the luminaire switches on again with the overwritten value (manual light value) unless the overwritten value was an OFF command, in which case DSI-SMART returns to automatic mode so people do not enter a dark room.

¹ The "sec level" parameter is supported only by DSI-SMART PTM.




















² The "10% start" parameter is supported only by DSI-SMART.

Parameter	Range Factory setting	Description
PTMset ³	on off	In the "on" setting the possibility to store the set value of the ambient light control with the push to make switch is activated (by 2 short key presses). In the "off" setting the possibility to store the set value of the ambient light control with the push to make switch it is locked.
DALlorDSI ³	DSI DALI	Preselection of the type of interfaces DSI oder DALI

³ The parameters PTMset and DSIorDALI are supported only by DSI-SMART PTM from version 1.1 and DSI-SMART Programmer from version 2.01.









2.2 Programming the entire parameter list

For initial programming all the parameters need to be reset or checked.
 Proceed as follows:

Function	Button	Display
1 Switch on the programmer.		SMART Programmer Version 2.00
2 Change to the "Download/Program" menu.		<downld/progr>
3 Select <downld/progr>.		download all
4 Download all the stored parameters from DSI-SMART (PTM) to the DSI-SMART Programmer. (The light is switched off during the entire process. On successful completion of data transfer DSI-SMART (PTM) returns to automatic mode.)		download all reading....OK
5 All the parameters are now stored in the programmer. Exit from this menu.		<downld/progr>
6 Change to the "Basic Parameters" menu.		<basic param>
7 Confirm. The user-definable parameter is now displayed in the first line. The first line also shows the current value (e.g. 65). The second line shows the possible settings.		light level: 65 1-100/max/man
8 If you want to change this value press the "Select" button. The asterisk in the top right corner indicates that this setting can be changed.		light level: 65 * 1-100/max/man
9 Use the scroll buttons to select the value you want.		light level: 70 * 1-100/max/man
10 Exit from this menu. The value you have set is retained.		light level: 70 1-100/max/man
11 Select the next parameter.		t-delay: 10 min 30s-60min/cont.
12 Press "Select" to select this parameter (current example 10 min).		t-delay: 10 min* 30s-60min/cont.
13 Use the up or down button to scroll to the new value (e.g. 20 min).		t-delay: 20 min* 30s-60min/cont.
14 Exit from this menu.		t-delay: 20 min 30s-60min/cont.
15 Repeat this procedure until all the parameters have been set to the values you want. For a list of all the parameters see Section 2.1: User-definable parameters		
16 When you have set all the parameters, exit from the <parameter> menu.		<basic param>
17 Change to <downld/progr>.		<downld/progr>
18 Select <downld/progr>.		download all
19 Change to <program all>.		program all
20 All the stored parameters are transferred from the DSI-SMART Programmer to DSI-SMART (PTM). (The light is switched off during the entire process. On successful completion of data transfer DSI-SMART (PTM) returns to automatic mode.) All the parameters are now stored in DSI-SMART.		program all sending....OK

2.3 Programming individual parameters

In addition to programming the entire parameter list you can change individual parameters. Proceed as follows:

Function	Button	Display
1 Switch on the programmer.		SMART Programmer Version 2.00
2 Change to the "Basic Parameters" menu.		<basic param>
3 Select. The user-definable parameter is now displayed in the first line. The first line also shows the current value (e.g. 65). The second line shows the possible settings.		light level: 65 1-100/max/man
4 Select the parameter to be changed (e.g. bright-out, from "yes" to "no").		bright-out: yes yes/no
5 Read the current value from DSI-SMART (PTM).		bright-out: yes reading.... OK
6 Select the parameter you want.		bright-out: yes * yes/no
7 Use the up/down buttons to change to "no".		bright-out: no * yes/no
8 Program the change in DSI-SMART (PTM).		bright-out: no * sending.... OK
Repeat this procedure until all the parameters have been set to the values you want.		






Note: In the case of individual programming the light is not switched off when the data is being read in or out.

3. Monitoring

The following actual values of the DSI-SMART PTM are monitored⁴:






Parameter	Value	Description
DSImon	0-255 / 0-100%	Current DSI value that is being output by DSI-SMART PTM.
LUXmon	x.x lx	Current light value in lux that is being measured by DSI-SMART PTM.

Reading the current values:

Function	Button	Display
1 Switch on the programmer.		SMART Programmer Version 2.00
2 Change to the "Monitoring" menu.		<monitors>
3 Select. The "DSImon" parameter is now displayed in the first line.		DSImon: 0 0%
4 Select the parameter to be monitored (e.g. LUXmon).		LUXmon: 0.0 In lx
5 Read the current measured value from DSI-SMART (PTM).		LUXmon: 50.0 Reading..... OK

4. Remote control

The remote control function enables the lighting to be switched off and for automatic lighting control to be activated in DSI-SMART or DSI-SMART PTM.

Function	Button	Display
1 Switch on the programmer.		SMART Programmer Version 2.00
2 Change to the "IR-Remote" menu.		<IR remote>
3 Select. The "lamp off" function is now displayed in the first line.		lamp off
4 Select the function you want (e.g. lamp to automatic).		lamp to auto- matic
5 Send to DSI-SMART (PTM).		lamp to auto- sending....

5. System tests

In this menu you can perform various function tests on DSI-SMART PTM⁴:

Parameter	Value	Description
PTM-status	Short circuit/OK	Test for a short-circuit on the switch line
test start		Start the commissioning test
test end		Stop the commissioning test

Note: For the commissioning test the delay times for the sensor are temporarily set to the smallest possible values. This enables the functions to be tested quickly and easily.

⁴ The monitoring and system test functions are supported only by DSI-SMART PTM.

6. Status and error messages








Message	Description
sending.... OK	Transmission from the Programmer to the sensor successful
reading.... OK	Transmission from the sensor to the Programmer successful
link error	No feedback message from DSI-SMART
TxD_Error	Transmission was OK but unintelligible answer
Error_Flag	Transmission incorrect
LB	Low battery, replace or recharge

Check that each transmission is acknowledged with “sending OK” or “reading OK”, otherwise correct programming cannot be guaranteed.

Note: If electronic ballasts operating the lamps at a frequency of around 36 kHz are used, there may be problems with programming because of interference from the light sources. This greatly reduces the maximum range of the DSI-SMART Programmer. In such cases it is best to switch off the light with the aid of the SMART Controller or at the switch before starting programming.

7. Resetting DSI-SMART (PTM) to the factory defaults

DSI-SMART and DSI-SMART PTM can be reset to their factory defaults. To do this, proceed as follows:

Function	Button	Display
1 Switch on the programmer.		SMART Programmer Version 2.00
2 Change to the “Download/Program” menu.	 	<downld/progr>
3 Select <downld/progr>.		download all
4 Select the “restore default” parameter.	 	restore default
5 Activate the change in DSI-SMART (PTM).		restore default sending.....OK