TM TECHNOLOGIE

User manual for programmer

TM-PROG

v1.08 28-03-2025

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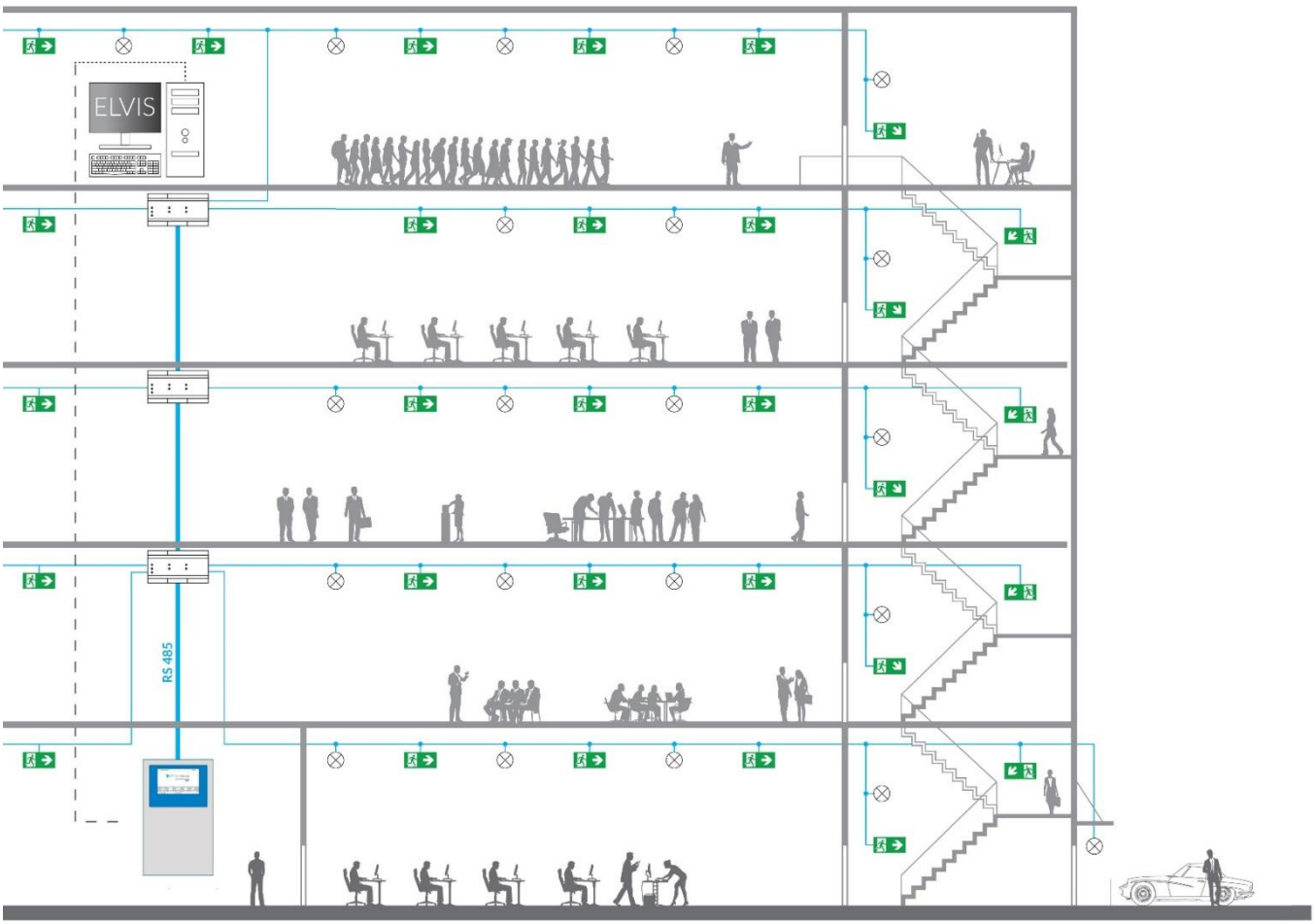
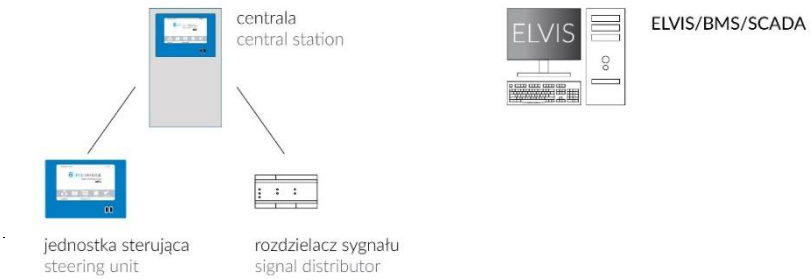




1. Introduction

TM-PROG is a programming device used to read and save addresses of lighting luminaires that are compliant with TM-CB A; TM-CB M; DATA 2; DATA 3; DALI or DALI-2 system. Programming is executed in a wireless mode that provides for operation without connecting lighting luminaires to a power supply. The programming device has a built-in battery that offers long operating time, and the current consumption is shown on a display. The provided charging socket lets the device be charged by using universal chargers or by connecting them to a computer. The programming device has an ergonomic casing that protects the device against mechanical damage and prevents accidental slipping from the hand.

2. Device details

2.1 First start-up

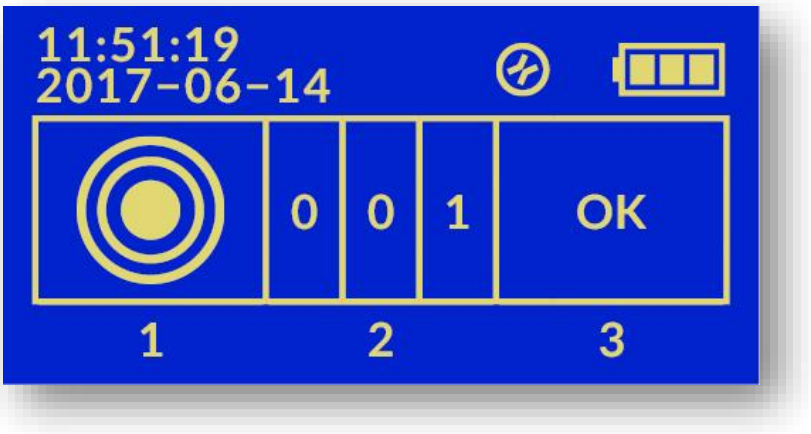
Note! Before the first start-up, connect the battery (see the quick start guide TM-PROG Programmer CB / DATA 2 / DATA 3 / DALI / DALI-2).

To start the device, press the ESC button. For charging the battery, see section 2.6. Setting the date and time, see section 2.4.

Note! During commissioning, the user must set a PIN.

2.2 Starting

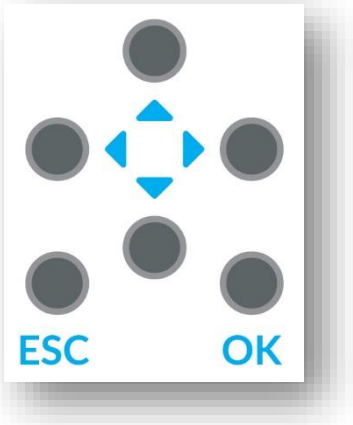
To start the device, press the ESC button. After starting a start-up screen is displayed.



The screen shows the following information:

- current time,
- current date,
- selected system type (D2, DA, DL, CB or CB R),
- charger connection status to the USB port,
- state of charge of the built-in battery
- read address/address to be saved,
- current programming stage.

2.3 Buttons



The device has 6 functional buttons:

- ESC – cancelling the currently executed operation. If the device is switched off, pressing the button will start it up. Holding the button during operation will switch the device off,
- OK – selection confirmation,
- (back) – return to the previous step,
- (continue) – selection confirmation/moving on to the next step,
- (up) – increasing the address value,
- (down) – decreasing the address value.

2.4 Date and time, software version

The programming device contains a time counter and time backup system. After the first start-up, set the current date and time.

Note! To change the date and time or read the software version, press the button three times.

Use the arrows and to select the currently selected digit. By arrow increase the selected number and the arrow decrease. The OK button or arrow confirms the digit selection.

Repeating the above steps one by one select and set the date (year, month, day), then the time (hour, minute).

After setting the minute and accepting with the OK button or the arrow before the date (year) an "asterisk" will appear and enter the date and time into the programmer.

Note! To go to the start screen, press the ESC button.

2.5 Battery

The current battery charging state is shown in the right upper corner. The following charging levels are possible:

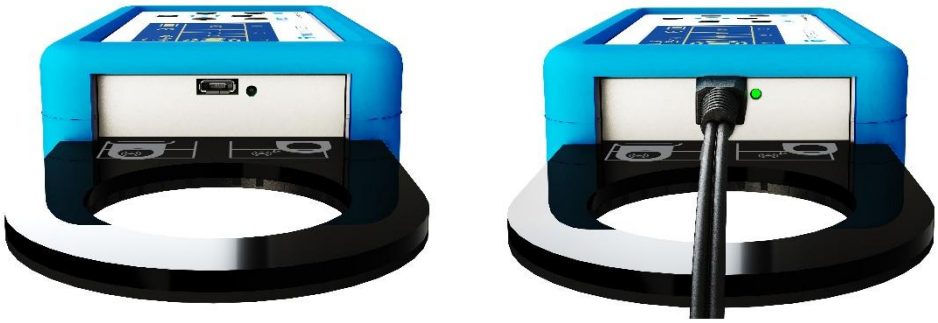
- battery is charged,
- battery is partially drained,
- battery is almost drained, it is recommended to connect the charger,
- battery is drained, please connect the charger urgently.

Switching between a fully charged state ( ) and a drained state ( ) means that the charger has been connected and the battery is being charged.

When the device is left in an idle state for two minutes, it will switch off automatically to protect the battery against drainage.

2.6 Charging

There is a Micro-USB socket on the device's side to connect the charger.



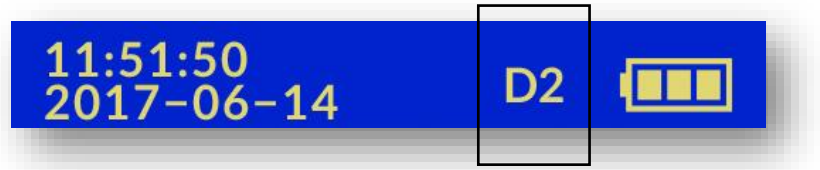
After connecting the charger, the following symbol will be shown on the display: .

An LED next to the USB socket will be lit while charging, and the charging state symbol

on the display will alternate its state between  and  .

2.7 Change in type of lighting luminaires and devices

The programmer has five operating modes (D2; DL; CB R; DA; CB), which allows you to change the addresses and functions of luminaire and devices in systems TM-CB A; TM-CB M; DATA 2; DATA 3; DALI and DALI-2. If there is no charger connected to the programmer, the currently selected programmer operating mode is shown on the display.



Operating mode	*System*	*Device*	*Function*	*Address Field*	*Address range*
D2	DATA 2	-	-	3 cyfry	1-252
		L-REPEATER – MESH radio network repeater			1-252
DA	DALI	-	-	3 cyfry	0-63
DL	DALI-2	-	-		0-63
	DATA 3	-	-		0-63
		L-REPEATER – MESH radio network repeater			0-63
CB	TM-CB A	-	-	2 cyfry	1-20
	TM-CB M	-			1-20
	TM-CB M	VTM - battery control module			1-18
CB R	TM-CB M	-	REPEATER	1 cyfra	0-2

Note! To change the system type, please hold the  button and press  .

DL mode – DALI-2, DATA 3 available from software version 1.051.

2.8 PIN change

The PIN is a four-digit number used to block the change of addresses for devices with a different PIN. The PIN can be reset from the control panel (DATA 2) or by the TM-PROG programmer. Luminaires with an unset (reset) PIN accept the first PIN which will be given to them when changing their address. The previously set PIN cannot be read.

Note! To change the PIN, please hold the  button and press  .

2.9 PIN reset

The TM-PROG programmer allows to reset the PIN in the luminaires. To do this, hold down the button  and press  . A menu will be launched to reset the PIN. Deletion must be confirmed by pressing OK or  . After switching on the reset, the programmer should be brought closer to the luminaire. When the PIN is reset, the user will receive the message OK.

If the programming device cannot read the lighting luminaire's address, it must be placed as close as possible to the lighting luminaire or, possibly, moved along the lighting luminaire edge.

3. How to operate the device

The device shows the current address programming stage. There are three stages available:

- Address reading (stage 1).
- New address setting (stage 2).
- Address saving (stage 3).

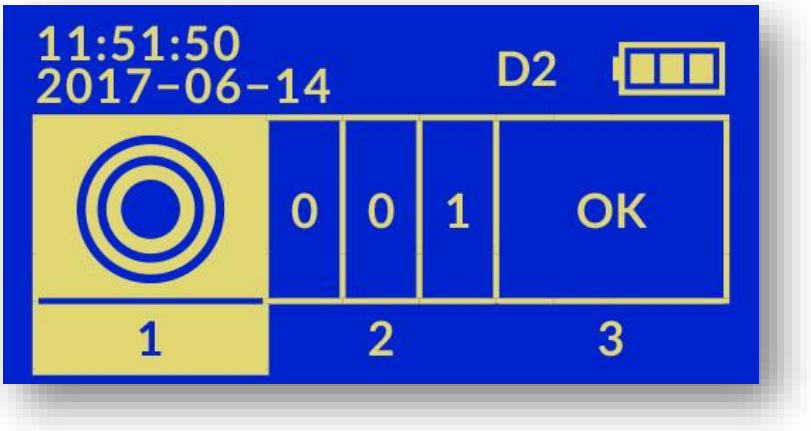
To move on to stage 1, please press OK or ▶ on the start-up screen.

Pressing ESC during any stage will result in moving on to the start-up screen.

3.1 Address reading

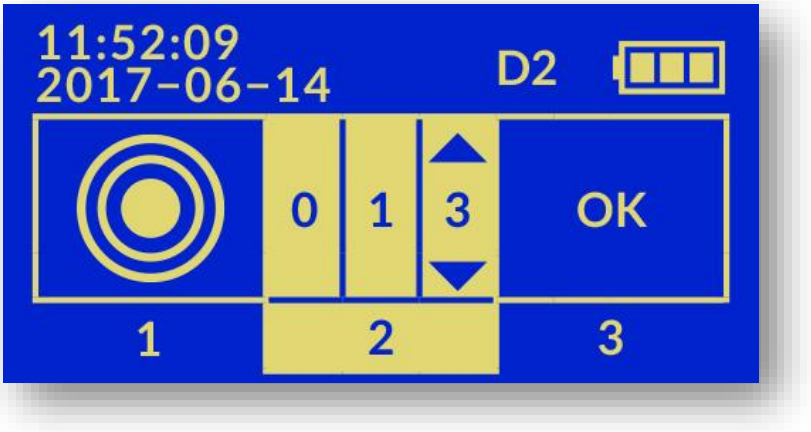
During this stage, the programming device will try to read the lighting luminaire's address. When this stage is executed, the programming device should be placed close to a lighting luminaire in the place indicated in the installation manual. When the address has been read, the process will move on automatically to stage 2. This stage may be omitted by pressing the ▶ button.

If the programming device cannot read the lighting luminaire's address, it must be placed as close as possible to the lighting luminaire or, possibly, moved along the lighting luminaire edge.



3.2 Address setting

At this stage, the user will set up a new address of the lighting luminaire. The address must come within a range from 1 to 252 for DATA 2 system and for the DALI; DALI-2; DATA 3 system - from 0 to 63. In the case of CBA and CBM system, the maximum address is 20. By using the arrow ▲ the indicated digit is increased, while the ▼ arrow is used to decrease it. The ◀ and ▶ arrows are used to select the currently indicated digit. The OK button confirms digit selection. After the last digit has been confirmed, the user is moved on to stage 3.



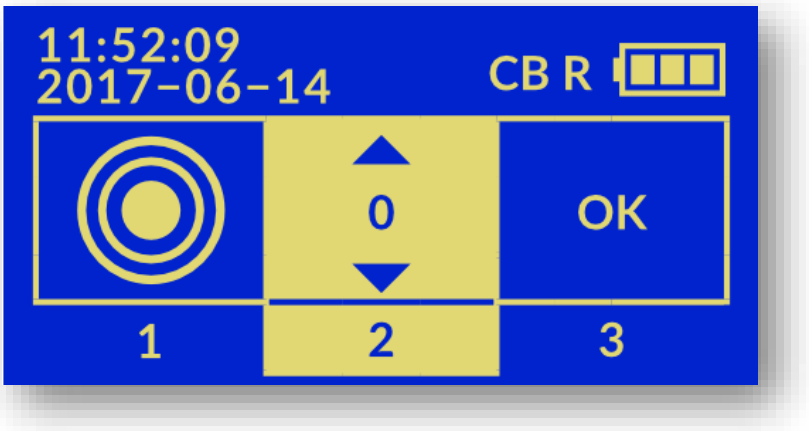
Note! For DALI; DALI-2 and DATA 3 luminaires, setting the address 255 allows you to delete the address of the luminaire.

Note! For DALI; DALI-2 and DATA 3 luminaires, after changing the address, restart the luminaire by disconnecting the power supply and the battery.

3.3 Activation of the Repeater function in the CBM luminaire

To activate the Repeater function, change the programmer mode to CB R (see section 2.7) and then select the number 1 or 2. Selecting the number 0 means a luminaire without the Repeater function. Digit 1 means Repeater No. 1. Digit 2 means Repeater No. 2.

By using the arrow ▲ the indicated digit is increased, while the ▼ arrow is used to decrease it. The OK button confirms digit selection. After the last digit has been confirmed, the user is moved on to stage 3.

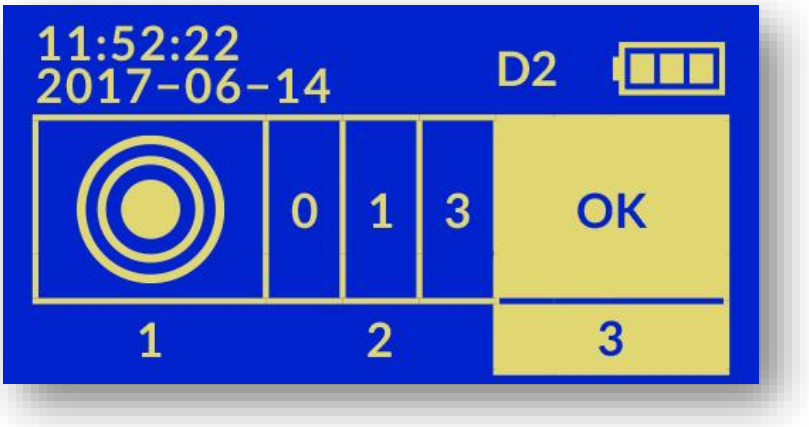


Note! A maximum of two REPEATERS should be used per single circuit.

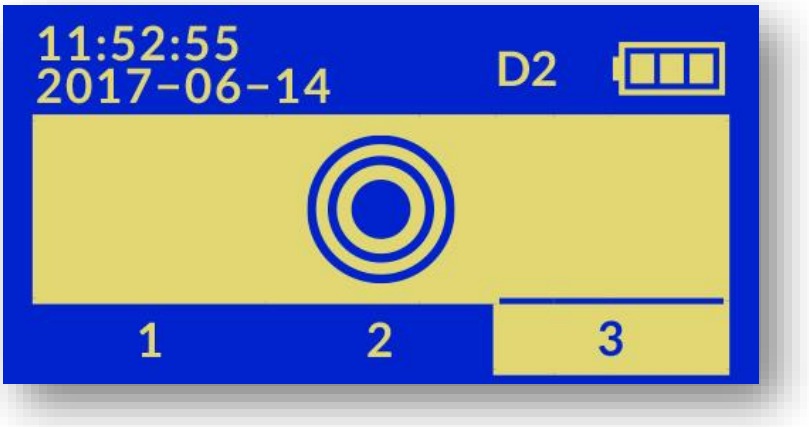
Note! For the correct functioning of the system, the order in which the repeaters are located in the circuit is important, REPEATER 1 must be installed closer to the circuit card (station/sub-distribution) in the circuit than REPEATER 2.

3.4 *Address saving*

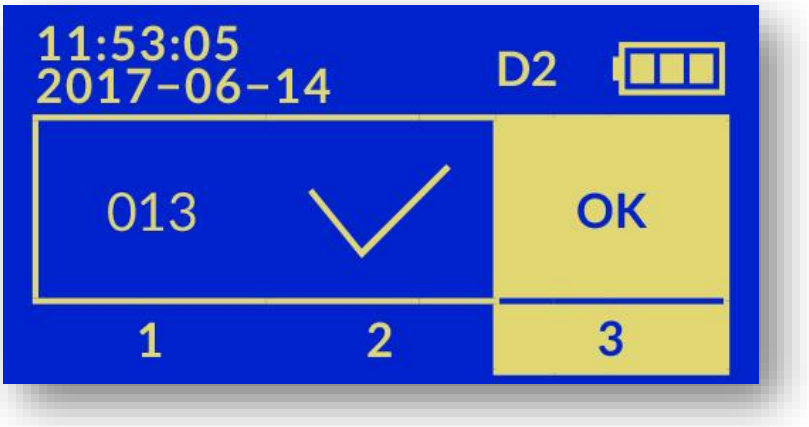
The purpose of this stage is to save the new address for the lighting luminaire. When this stage is executed, a new address is seen in the display. The user must check that it has been set up correctly. If it needs adjustment, please press the button.



Pressing the OK or button will result in launching the saving new address procedure:



When saving is executed, the programming device should be placed close to the lighting luminaire. When the address has been saved, the user will receive an OK message:



If the programming device cannot save the lighting luminaire's address, it must be placed as close as possible to the lighting luminaire or, possibly, moved along the lighting luminaire edge.

If the address programming has failed, the error code will be displayed:

- E1 - luminaire fitting blocked from writing, in order to change the address, the options to change addresses should be unblocked in the control panel,
- E2 - PIN error, PIN set in the programmer differs from that in the luminaire, change the PIN code to correct or reset the PIN in the frame,
- E3 - RFID password error, please contact TM Technologie service,
- E4 - selected wrong luminaire type.

Notes:

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