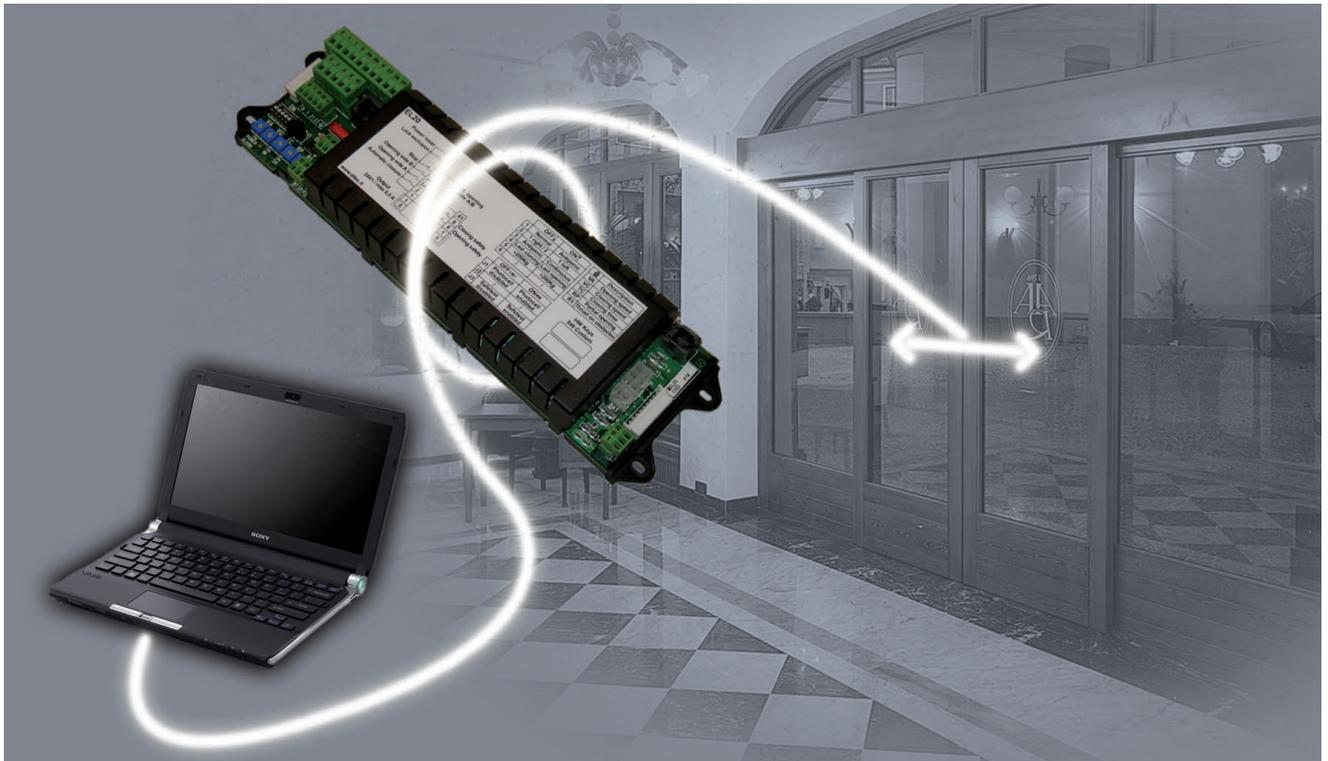


Entrematic DMCS

IP1660EN • 2019-02-05

Operating instructions for door monitoring and control system



99 0501123456	10	COME 0501123456	10	E2H 0501123456	10	EL16 0501123456	10	EL16R 0501123456	00	EL20 0501123456	00
EL20A 0501123456	00	EL21 0501123456	00	EL25 0501123456	10	EL31R 0501123456	00	EL32 0501123456	00	EL34 0501123456	00
MD1 0501123456	00	MD2 0501123456	00	MP1 0501123456	10						

1. General safety precautions

-  This installation manual is intended for professionally competent personnel only.
- Read the instructions carefully before installing the product. The packaging materials (plastic, polystyrene, etc.) should not be discarded in the environment or left within reach of children, as these are a potential source of danger.
- Before installing the product, make sure it is in perfect condition.
- Use original spare parts only for repairs or replacements of products.
- These instruction must be kept and forwarded to all possible future users of the system.

2. Compatible products

The DMCS software can manage DITEC products of a version that is equal to or later than the one indicated (refer to the last 2 figures in the serial number as shown on page 1).

Maximum performance is obtained with updated firmware versions available at www.ditecentrematic.com.

 **WARNING:** you may need to download the updated version of the DMCS software available at www.ditecentrematic.com.

3. Minimum system requirements

Personal Computer equipped with Windows® 2000/XP/VISTA/7/10 operating system with 10 MB of available HD space and at least 32 MB of RAM.

4. Installation and use of software

- To install the DMCS software, insert the CD-ROM in your computer, launch the **setup.exe** file and follow system indications.
- To start the DMCS program, select the link on the program bar or run the **dmcs.exe** file.
- To learn about DMCS software operating and performance, start the program and refer to the on line instructions .

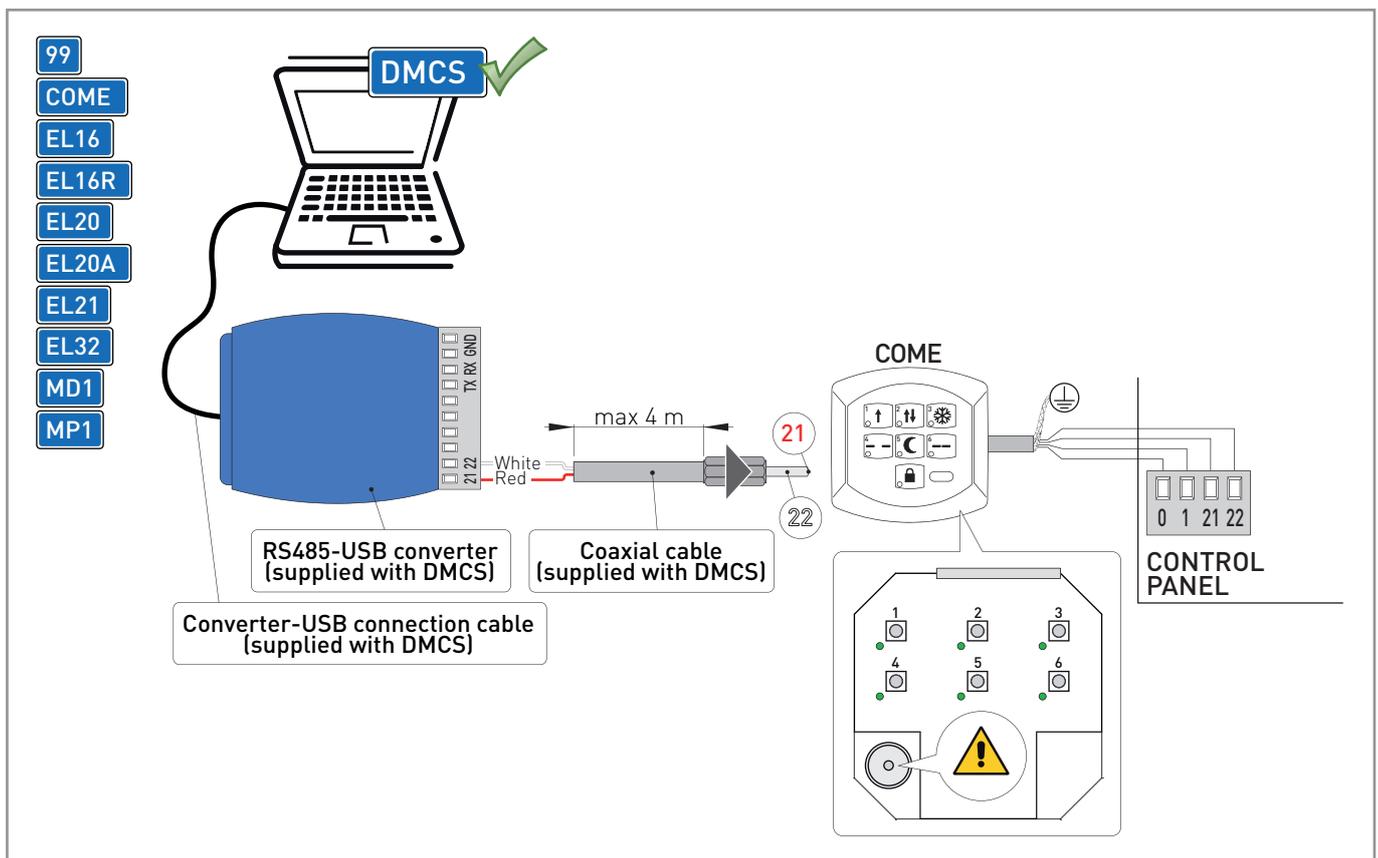
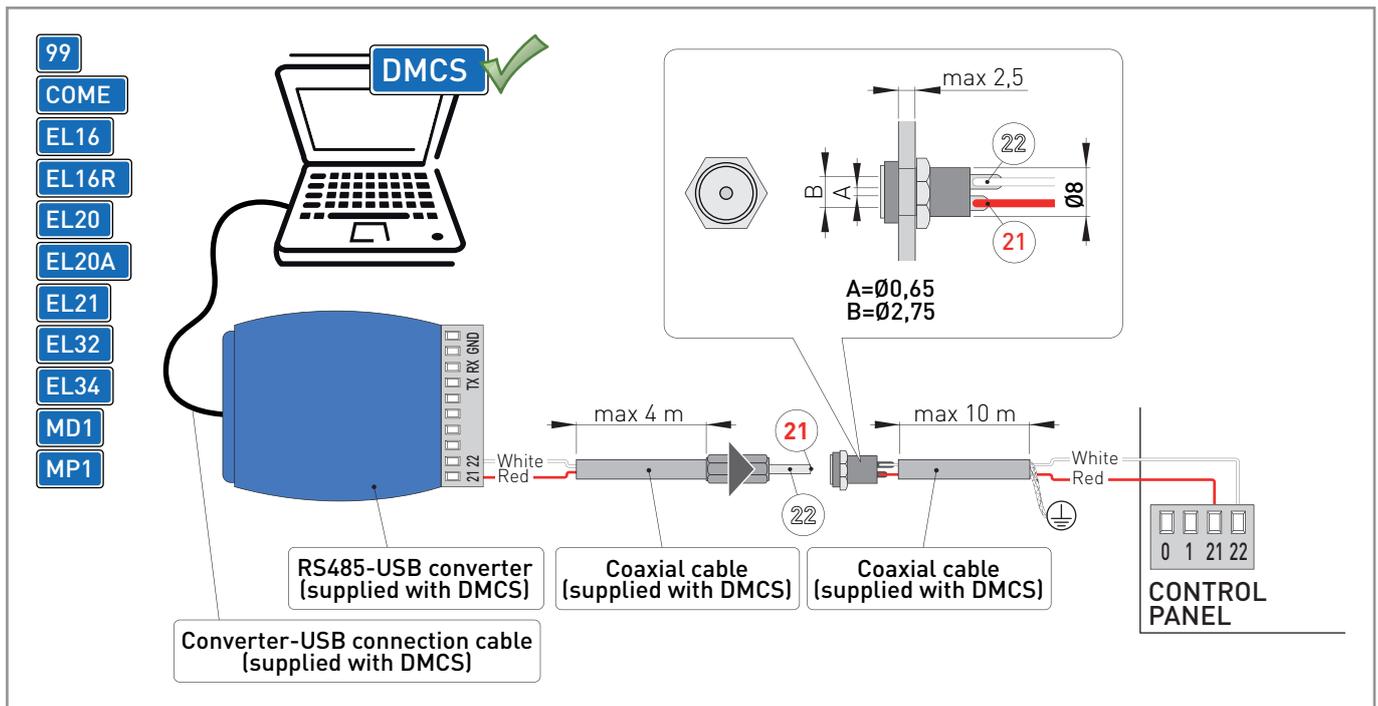
5. USB driver installation

- Connect the device to the appropriate port of the computer in use, the system will detect the device.
- After the device has been detected by the system the **Add new hardware wizard** will start.
- Complete the installation procedure.
- Check the COM serial port number assigned by the computer in **Control Panel - System - Hardware - Device manager - Ports - I-756X Converter**.
- Indicate the number of the previously verified serial port in the DMCS manager serial port settings.

 **WARNING:** if the version of the USB driver which comes with the operating system on the computer in use is not on the CD-ROM, refer to the USB interface manufacturer's site www.icpdas.com.tw.

6. ELECTRICAL CONNECTIONS

6.1 Direct connection



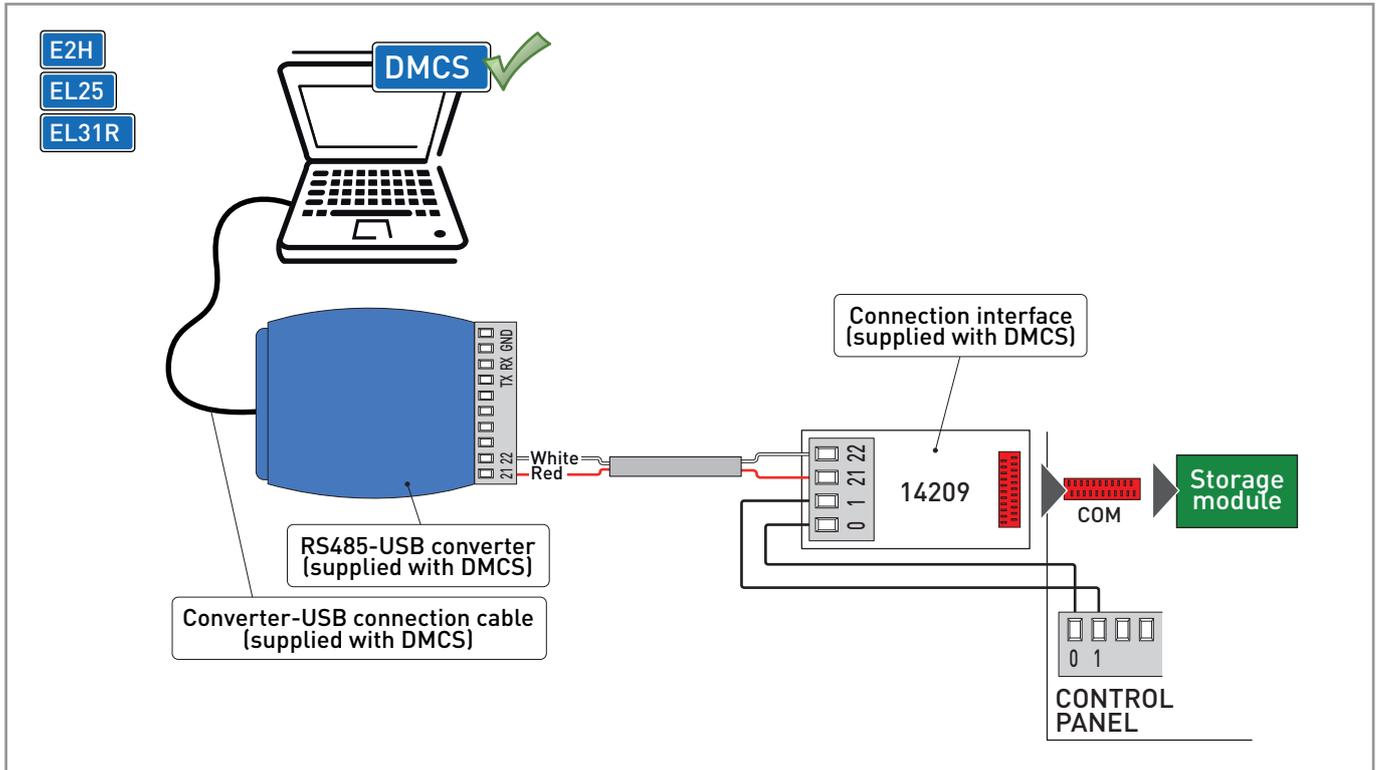
On control panels with serial terminal boards, you can connect the RS485-USB converter directly to the control panel using the supplied coaxial cables as shown in the figure or a shielded data transmission cable (not supplied).

The RS485-USB converter can also be connected to the control panel using the special connector on the COME functions selector switch (if present).



WARNING: the electrical connections must be made when the power supply is switched off.

6.2 Connection via interface card



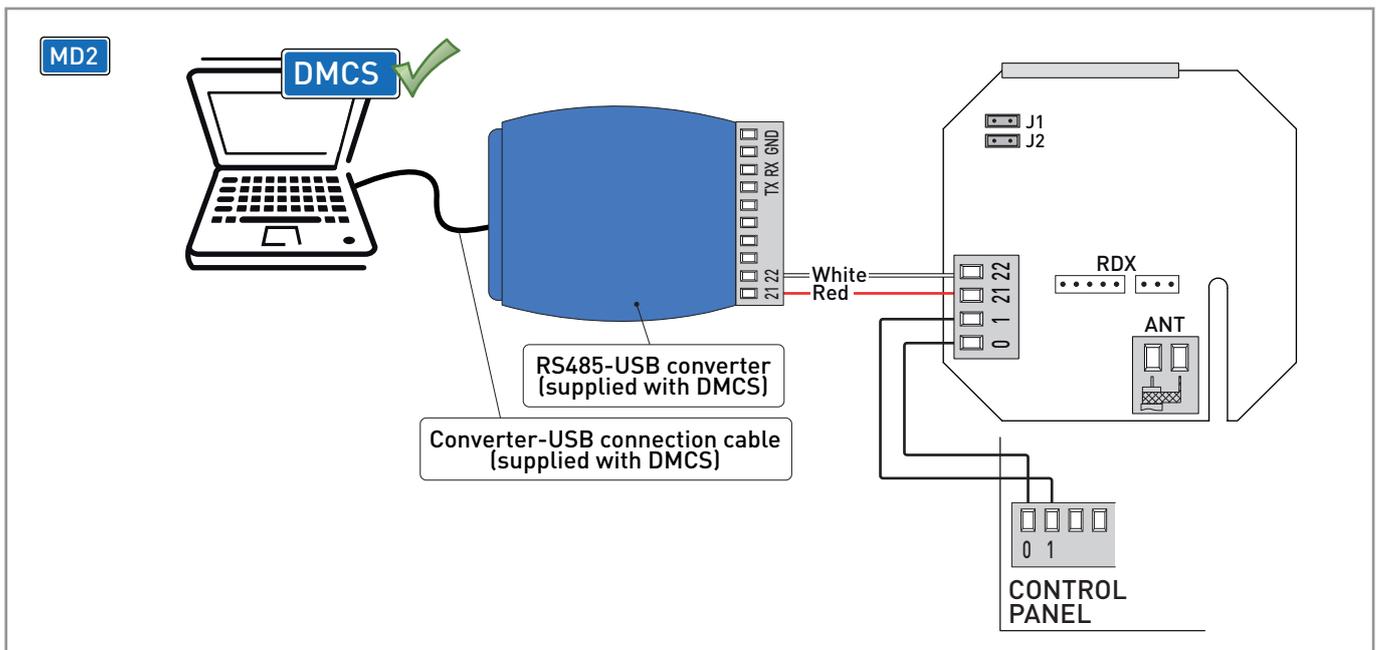
On control panels **without** a serial terminal board, the RS485-USB converter can be connected to the control panel using the 14209 interface connection card as shown in the figure.

The 14209 interface connection card must be inserted in the COM connector on the control panel once the storage module has been temporarily removed.



WARNING: the electrical connections must be made when the power supply is switched off.

6.3 Connection of MD2 display module



The RS485-USB converter can be connected to the MD2 display module as shown in the figure.



WARNING: the electrical connections must be made when the power supply is switched off.

7. START OF PROGRAMMING

7.1 Start of programming on control panels and accessories with display

E2H

EL25

MD2

CONTROL PANEL

ESC

ENTER

DOWN

UP

P.

L N

36 35 34

33 32 31

15 14 0

1 5 9 13

1 5 20

0 1 6

0 1 8

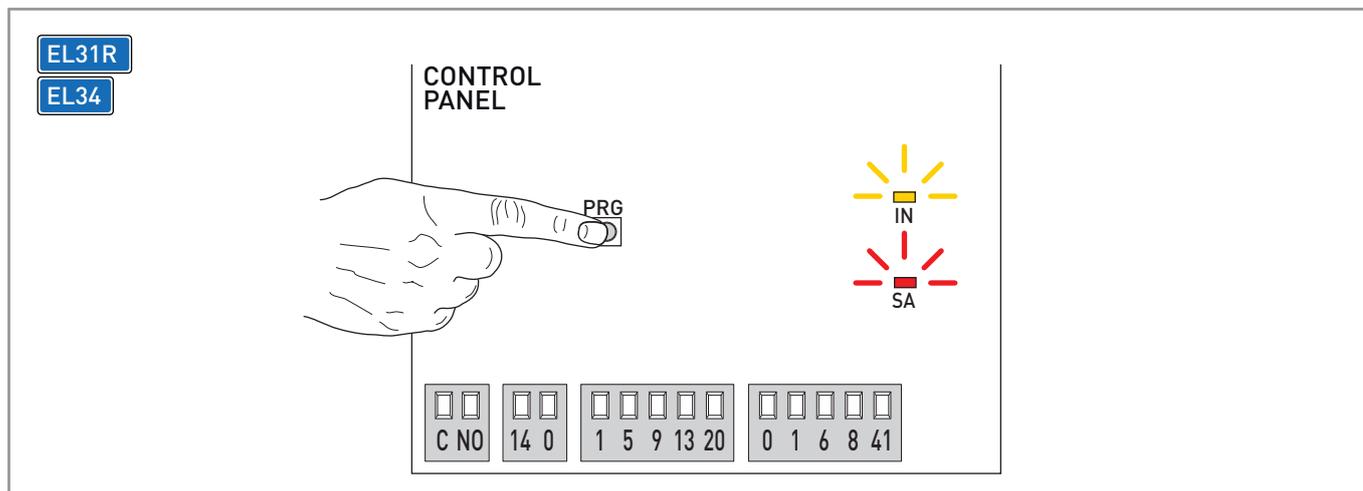
1

2

On control panels and accessories with a display, do the following to start programming correctly:

- if present, disconnect the control panel or accessory power supply;
- connect the DMCS device;
- press and hold down buttons [ENTER] and [ESC] on the control panel or accessory;
- after turning on the power, the control panel or accessory comes on and the P. start of programming message is displayed;
- update the firmware using the DMCS software and following the system instructions as shown in the figure;
- once the firmware has been updated, disconnect the control panel power supply and disconnect the DMCS device.

7.2 Start of programming on control panels without display



On control panels for gates or sectional doors **without** a display, do the following to start programming correctly:

- disconnect the control panel power supply, if present;
- connect the DMCS device;



WARNING: if present, remove the storage module.

- press and hold down button [PRG] on the control panel;
- after turning on the power, the control panel comes on and the IN and SA LEDs light up to indicate that programming has started;
- update the firmware using the DMCS software and following the system instructions on page 6;
- once the firmware has been updated, disconnect the control panel power supply and disconnect the DMCS device.

7.3 Start of programming from software

99

COME

EL16

EL16R

EL20

EL20A

EL21

EL32

MD1

MP1

The figure consists of three overlapping screenshots of the 'Dmcs - Data Monitoring Control System v.2.4.0' software interface, illustrating the steps to update a device's firmware.

Screenshot 1: Shows the 'Device Network Automatic Acquisition' screen. A callout box points to the 'Drive unit EL20: 1515000000' entry in the device list, with the text 'Selection of device to be updated'. A large number '1' is in the top right corner.

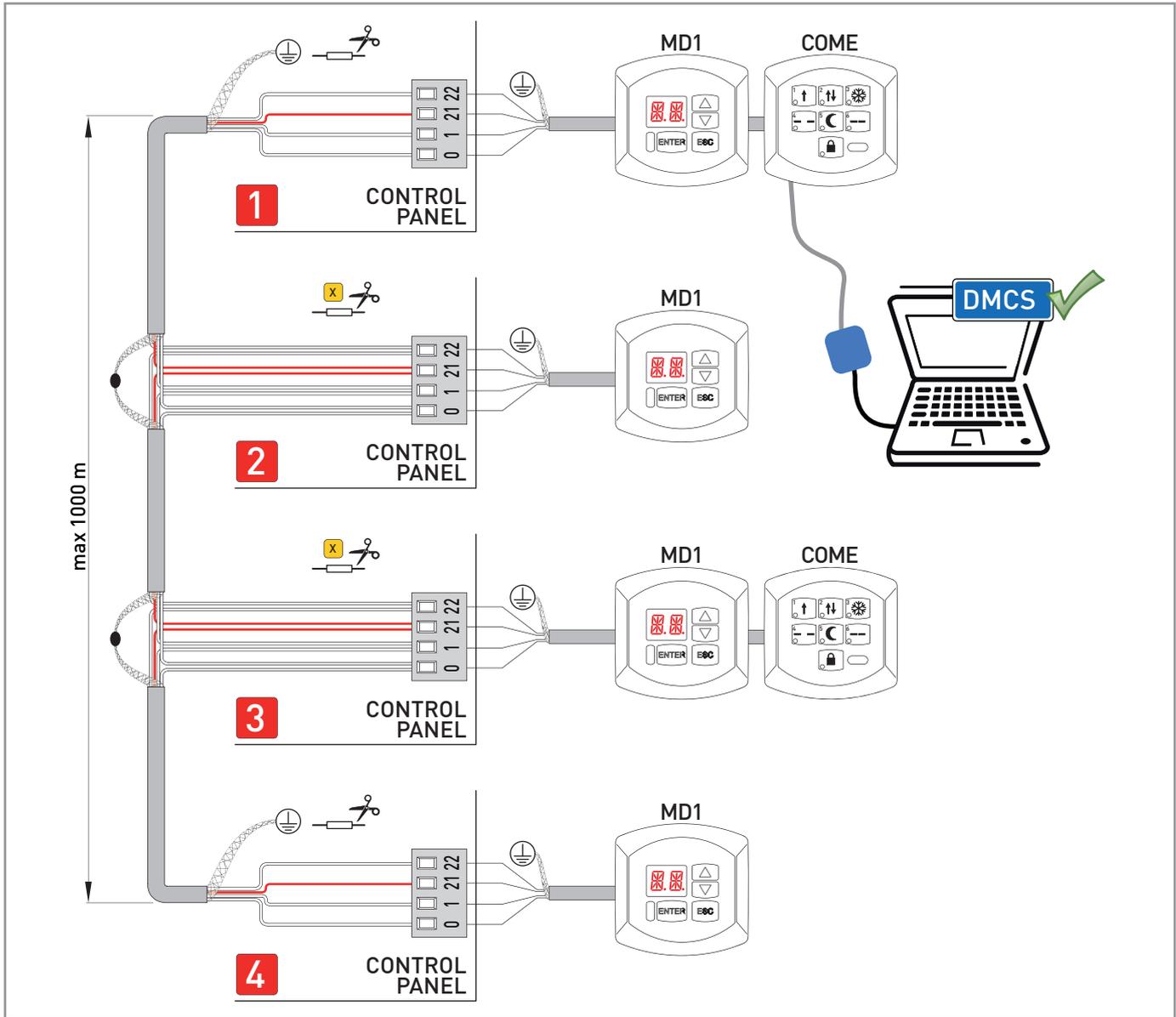
Screenshot 2: Shows the 'Firmware' screen for the selected device. A callout box points to the 'Firmware Version: 1.4.0' field, with the text 'Firmware version of device to be updated'. A large number '2' is in the top right corner.

Screenshot 3: Shows the 'Installing Firmware in an EL20' screen. A callout box points to the 'Firmware Source File' path, with the text 'Path of update file'. A large number '3' is in the top right corner.

On control panels for pedestrian doors, do the following to start programming correctly:

- connect the DMCS device;
- start the DMCS software;
- update the firmware using the DMCS software and following the system instructions as shown in the figure;
- once the firmware has been updated, disconnect the DMCS device.

8. EXAMPLE OF APPLICATION WITH NETWORK OF AUTOMATIONS



For network-connected automations for automatic doors with functions selector switches, make the electrical connections shown in the figure. In the configuration shown in the figure, up to four automations can be controlled with one or two COME functions selectors.

When the DMCS device controls four automations, cut the resistance shown [X] in control panels [2] and [3].

When the DMCS device controls three automations, cut the resistance shown [X] in control panel [2].

! WARNING: if MD1 display modules are used, the MD1 display modules must be separately configured with each control panel before making network connections. Simply power each control panel for at least 30 s with its own MD1 display module, check that the MD1 display module operates correctly with the connected control panel and then disconnect the power supply, make the network connections and simultaneously power all the control panels.

! WARNING: the DMCS device can only control one redundant automation equipped with an EL16R control panel.

The crossed-out wheeled bin symbol indicates that the product should be disposed of separately from household waste. The product should be handed in for recycling in accordance with local environmental regulations for waste disposal. By separating a marked item from household waste, you will help reduce the volume of waste sent to incinerators or landfill and minimize any potential negative impact on human health and the environment.

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