

Date: 22nd February 2022
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From: EVCO S.p.A.
To: - Internal sales force
 - Branches
 - Customers

SUBJECT: EXTENSION OF HARDWARE STRUCTURES FOR PROGRAMMABLE CONTROLLERS AND USER INTERFACES IN THE C-PRO 3 SERIES

In order to ensure supply continuity, starting from early 2022 the programmable controllers and user interfaces in the c-pro 3 series will be released with equivalent hardware solutions. Simultaneously, the new UNI-PRO 3.20.0.0 version www.evco.it/en/autenticazione will be published in the EVCO website to support the change in the hardware structure.

The new UNI-PRO version allows backward compatibility with the devices previously manufactured and/or delivered, while binary projects or applications precompiled with UNI-PRO versions older than the 3.20.0.0 will need to be recompiled if used with devices featuring the new hardware structure.

The devices requiring updating are identified in the product label with 2 letters inside the numerical code of the product.

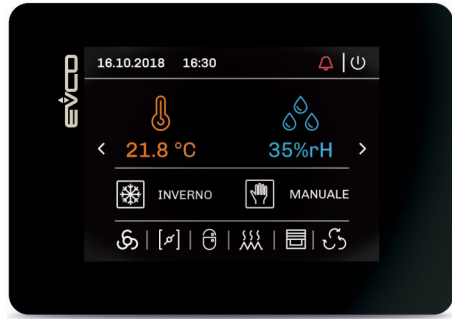


Below the complete list of the device item codes presently involved in this activity:

EPN2L	EPU2B	EPU3BR	EPK3B	EPB9BRE	EPJC900X4
EPN2LR	EPU2BR	EPU3BXP	EPK3BEV	EPB9BVE	EPJC900X4VW
EPN2LXC	EPU2BSR	EPU3LEV4EV	EPK3BSR	EPB9BXE	EPJC910X4VW
EPN2LXP	EPU2BXH	EPU3LR	EPK3BXP	EPB9DRE	
EPN3L	EPU2BXP	EPU3LXP	EPK3D	EPB9O	
EPN3LXC	EPU2L		EPK3DSR	EPB9OR	
EPN3LXP	EPU2LR		EPK3DXP	EPB9ORE	
	EPU2LXH		EPK3L	EPB9OV	
	EPU2LXP		EPK3LEV		
			EPK3LXP		

I/O expansions do not need any updating.

Best regards,
EVCO S.p.A.



device for **INDOOR APPLICATIONS**

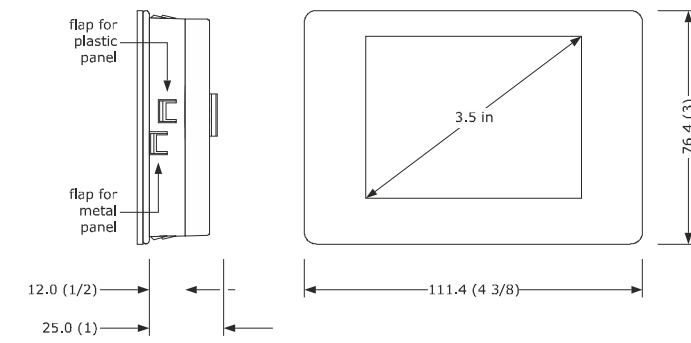
PLEASE READ CAREFULLY and save this document
CONSIDER THE ENVIRONMENT

- EN ENGLISH**
- panel or wall mounting (according to the model)
 - 24 VAC/12... 30 VDC power supply not insulated
 - 3.5 in colour touch-screen TFT graphic display
 - alarm buzzer
 - RS-485 MODBUS port
 - CAN port
 - **device for indoor applications.**

Purchasing codes	Installation mode	Power supply	Incorporated sensor
EPJC900X4	panel mounted	24 VAC/12... 30 VDC	no
EPJC900X4VW	wall mounted	24 VAC/12... 30 VDC	no
EPJC900X4VW	wall mounted	24 VAC/12... 30 VDC	temperature

1 MEASUREMENTS AND INSTALLATION | Measurements in mm (in)

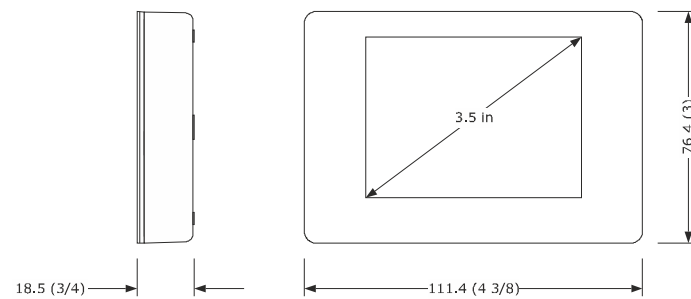
1.1 Models for panel mounting



To be fitted to a panel, with elastic holding flaps.

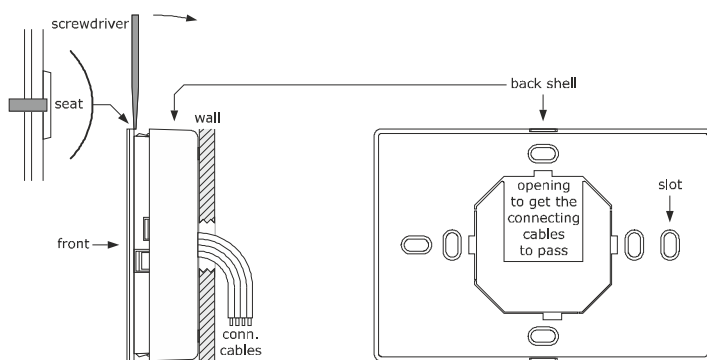
- N.B.**
- the thickness of a metal panel must be between 0.8 and 1.5 mm (1/32 and 1/16 in), while that for a plastic panel must be between 0.8 and 3.4 mm (1/32 and 1/8 in)
 - the measurements of drilling template must be 107.6 x 72.6 mm (3 15/16 x 2 7/8 in), with rounded corners R 3.0 mm (1/8 in).

1.2 Models for wall mounting



Wall mounting (with bolts and fastening screws) or in the most common flush mounting boxes (with fastening screws).

- Unhook the back shell from the front through a screwdriver and the proper seat.
- In case of wall mounting:
 - Lean the back shell against the wall in a position suitable to get the connecting cable to pass through the proper opening.
 - Use the slots of the back shell as template to drill 4 holes having a diameter suitable to the bolt. 5.0 mm (3/16 in) diameter bolts are suggested.
 - Insert the bolts in the holes drilled in the wall.
 - Fasten the back shell at the wall with 4 screws. Countersunk head screws are suggested.
- In case of flush mounting box, fasten the back shell at the box with 4 screws. Countersunk head screws are suggested.
- Make the electrical connection as shown in the section **ELECTRICAL CONNECTION** without powering up the device.
- Fasten the front of the device at the back shell.



INSTALLATION PRECAUTIONS

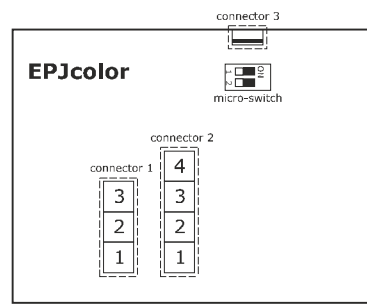
- Ensure that the working conditions are within the limits stated in the **TECHNICAL SPECIFICATIONS** section
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

2 ELECTRICAL CONNECTION

- N.B.**
- Use cables of an adequate section for the current running through them
 - To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables and connect to a CAN network and RS-485 MODBUS network by using a twisted pair.

2.1 Models for panel mounting

2.1.1 Connectors and parts



Connector 1

N.	DESCRIPTION
1	reference RS-485 MODBUS port
2	RS-485 port reference -
3	RS-485 port reference +

Connector 2

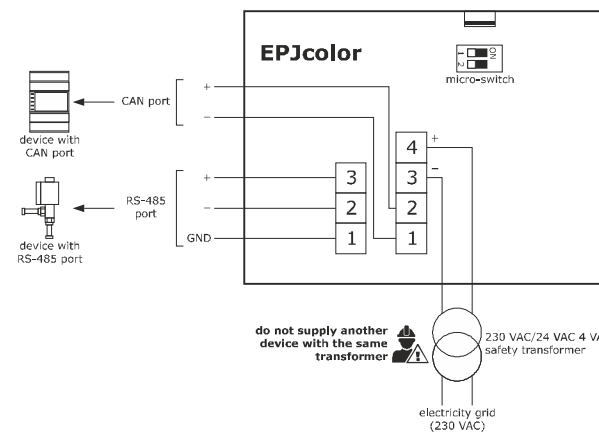
N.	DESCRIPTION
1	CAN port reference -
2	CAN port reference +
3	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal minus
4	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal plus

Connector 3: USB port, for programming the device.

- Micro-switch:**
- to insert the RS-485 MODBUS port termination resistor.
 - to insert the CAN port termination resistor.

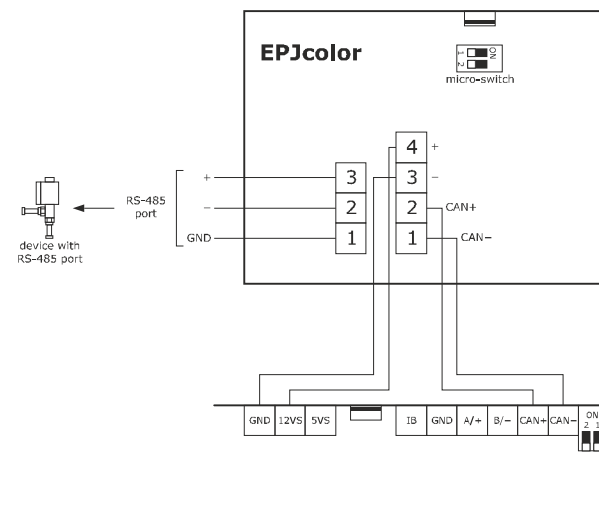
2.1.2 Electrical connection with independent power supply

- N.B.**
- Do not supply another device with the same transformer.



2.1.3 Electrical connection with device powered by a controller (for example c-pro 3 OEM)

- N.B.**
- Make sure that the current supplied by the controller is suitable to power the device.

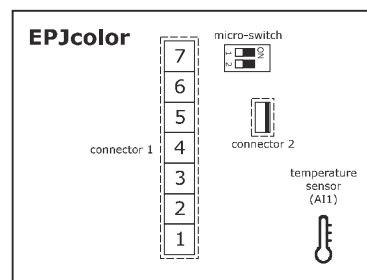


2.1.4 Insertion of the RS-485 MODBUS port and CAN port termination resistor

To insert the RS-485 MODBUS port termination resistor, place micro-switch 1 in position ON. To insert the CAN port termination resistor, place micro-switch 2 in position ON. The micro-switch is at the back of the device (remove the back shell from the front before).

2.2 Models for wall mounting

2.2.1 Connectors and parts



Connector 1

N.	DESCRIPTION
1	CAN port reference -
2	CAN port reference +
3	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal minus
4	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal plus
5	reference RS-485 MODBUS port
6	RS-485 port reference -
7	RS-485 port reference +

Connector 2: USB port, for programming the device.

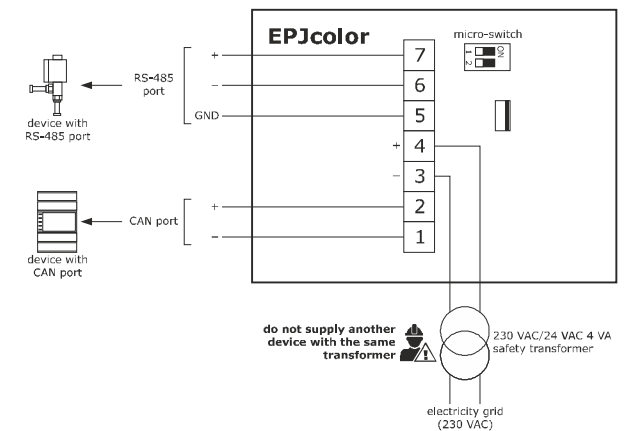
Micro-switch:

- to insert the RS-485 MODBUS port termination resistor.
- to insert the CAN port termination resistor.

Temperature (AI1) sensor: according to the model.

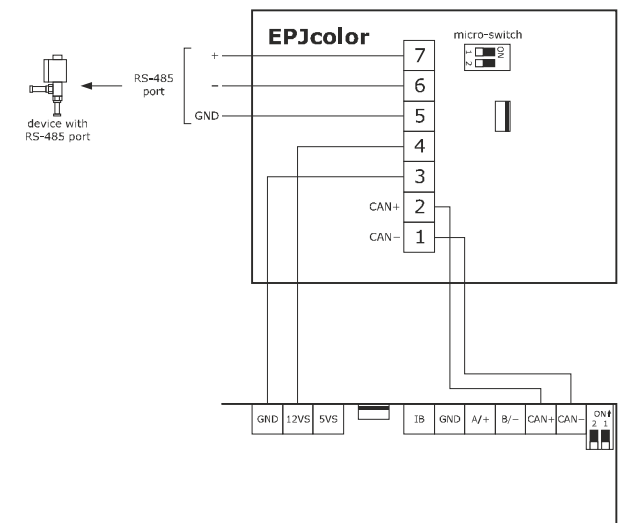
2.2.2 Electrical connection with independent power supply

- N.B.**
- Do not supply another device with the same transformer.



2.2.3 Electrical connection with device powered by a controller (for example c-pro 3 OEM)

- N.B.**
- Make sure that the current supplied by the controller is suitable to power the device.



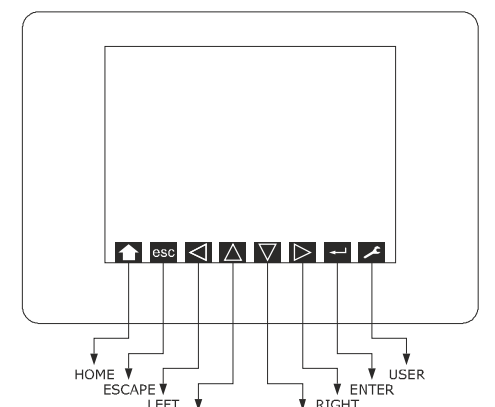
2.2.4 Insertion of the RS-485 MODBUS port and CAN port termination resistor

To insert the RS-485 MODBUS port termination resistor, place micro-switch 1 in position ON. To insert the CAN port termination resistor, place micro-switch 2 in position ON. The micro-switch is at the back of the device (remove the back shell from the front before).

PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section **TECHNICAL SPECIFICATIONS**
- Disconnect the power supply before doing any type of maintenance
- Do not use the device as safety device
- For repairs and for further information, contact the EVCO sales network; possible returns without label data will not be accepted.

3 USER INTERFACE



3.1 Switching the device on and off

- Power up the device: an internal test will be run.
- Touch the low part of the display to show the sensitive areas.

4 SETTINGS

4.1 Setting configuration parameters of "Parameters" and "Networks" menu

- N.B.**
- Turn off the power after changing the configuration.

- Touch the low part of the display to show the sensitive areas.
- Touch the USER area: the display will show the frame "Network Status (CAN)".
- Touch the ENTER area: the display will show the frame "V-COLOR BROWS".
- Touch the UP or DOWN area to select a menu.
- Touch the ENTER area to access a menu: the display will show the frame "Input Password".
- Touch the ENTER area again.
- Touch the UP or DOWN area to set "-19".
- Touch the ENTER area: the display will show the frame of the menu.
- Touch the UP or DOWN area to select a parameter.

