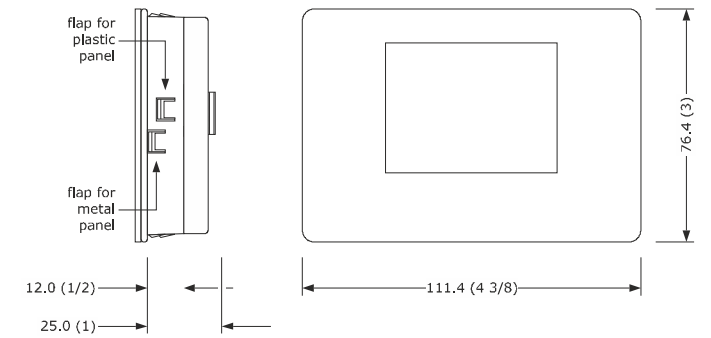


- EN ENGLISH**
- panel or wall mounting (according to the model)
 - 24 VAC/12... 30 VDC power supply not insulated
 - colour LCD graphic display
 - alarm buzzer
 - CAN port
 - device for indoor applications.

Purchasing codes	Installation mode	Power supply
EPJG900X4	panel mounted (black front)	24 VAC/12... 30 VDC
EPJG900X4VW	wall mounted (white front)	24 VAC/12... 30 VDC

1 MEASUREMENTS AND INSTALLATION | Measurements in mm (in)

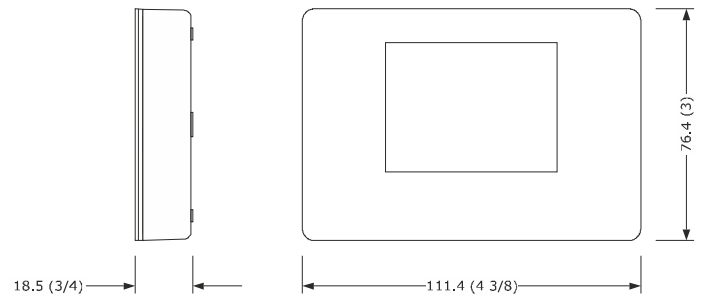
1.1 Models for panel mounting



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

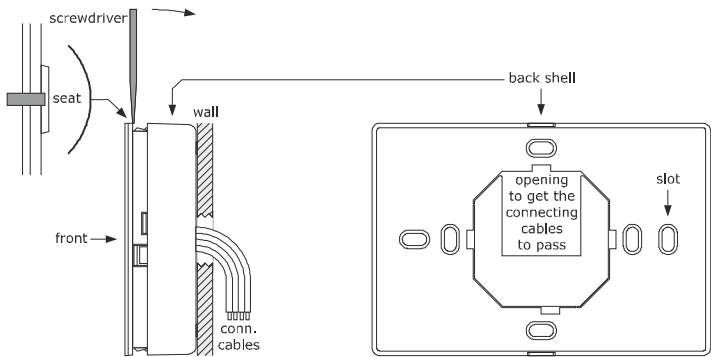
- N.B.**
- the thickness of a metal panel must be between 0.8 and 1.5 mm (1/32 and 1/16 in), while that for a plastic panel must be between 0.8 and 3.4 mm (1/32 and 1/8 in)
 - the measurements of rilling template must be 107.6 x 72.6 mm (3 15/16 x 2 7/8 in), with rounded corners R 3.0 mm (1/8 in).

1.2 Models for wall mounting



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

1. Unhook the back shell from the front through a screwdriver and the proper seat.
- 2.1 In case of wall mounting:
 - 2.1.1 Lean the back shell against the wall in a position suitable to get the connecting cable to pass through the proper opening.
 - 2.1.2 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.
 - 2.1.3 Insert the bolts in the holes drilled in the wall.
 - 2.1.4 Fasten the back shell at the wall with 4 screws. Countersunk head screws are suggested.
- 2.2 In case of flush mounting box, fasten the back shell at the box with 4 screws. Countersunk head screws are suggested.
3. Make the electrical connection as shown in the section *ELECTRICAL CONNECTION* without powering up the device.
4. Fasten the front of the device at the back shell.



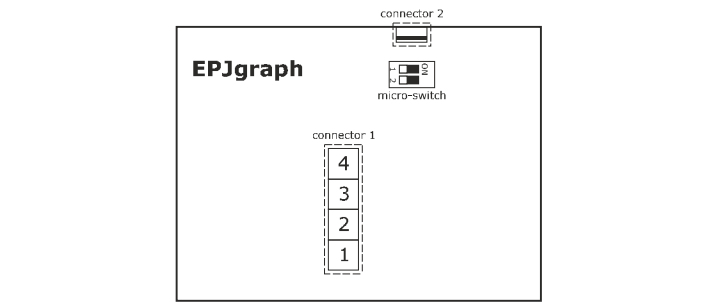
- INSTALLATION PRECAUTIONS**
- Ensure that the working conditions are within the limits stated in the *TECHNICAL SPECIFICATIONS* section
 - Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical 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 by using a twisted pair.

2.1 Models for panel mounting

2.1.1 Connectors and parts



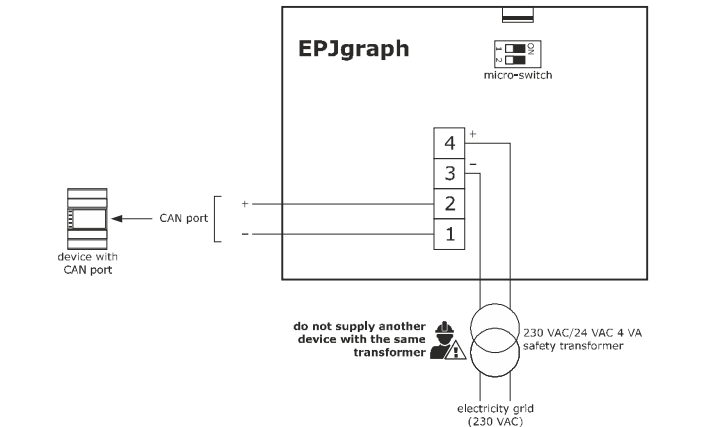
N.	DESCRIPTION
1	CAN port reference -
2	CAN port reference +
3	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal minus
4	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal plus

Connector 2: USB port, for programming the device.

Micro-switch to insert the CAN port termination resistor.

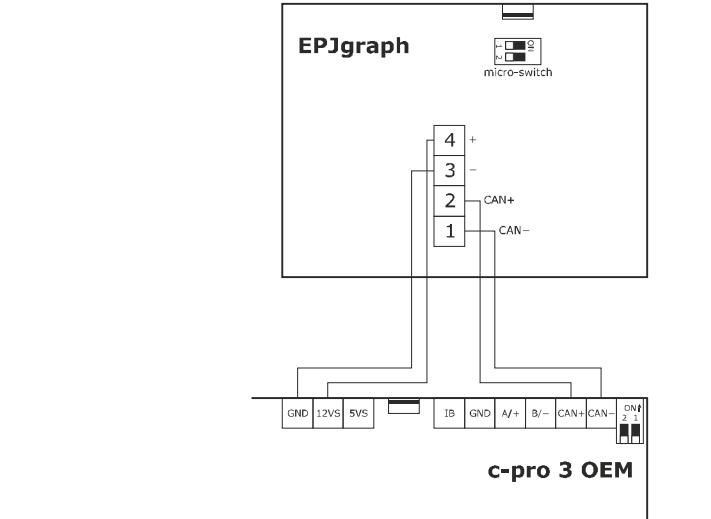
2.1.2 Electrical connection with independent power supply

- 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.

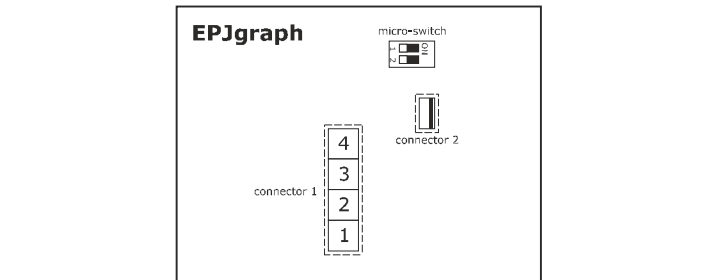


2.1.4 Insertion of CAN port termination resistor

To insert the CAN port termination resistor, place micro-switch 2 in position ON. Let micro-switch 1 in position OFF. 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



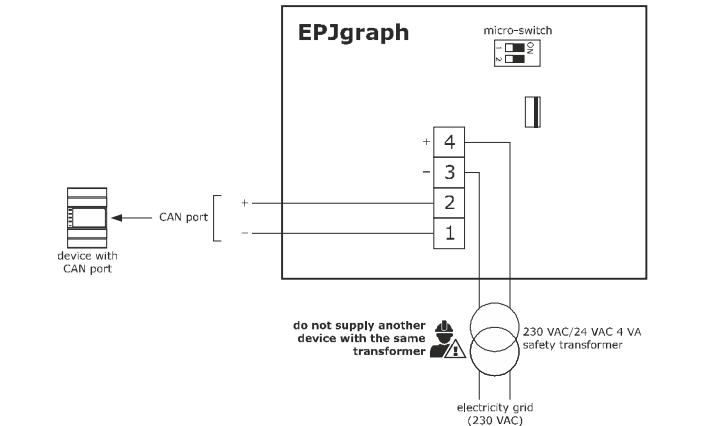
N.	DESCRIPTION
1	CAN port reference -
2	CAN port reference +
3	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal minus
4	device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, connect terminal plus

Connector 2: USB port, for programming the device.

Micro-switch to insert the CAN port termination resistor.

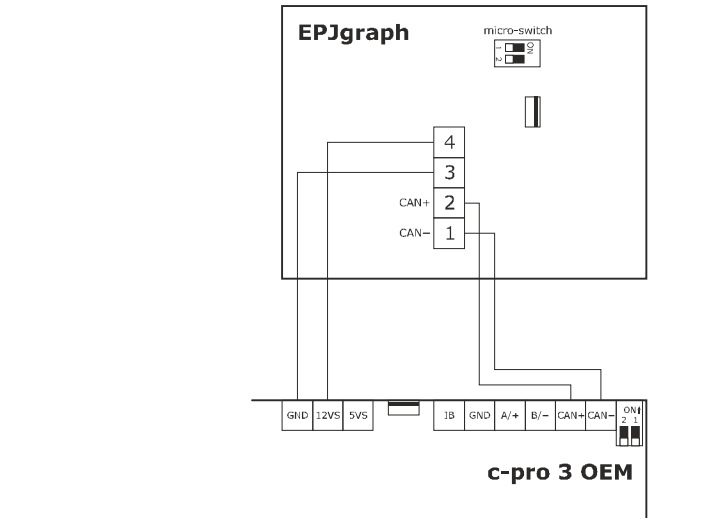
2.2.2 Electrical connection with independent power supply

- 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.

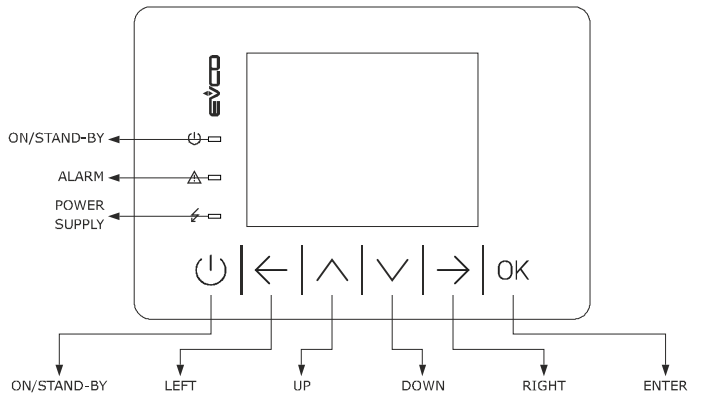


2.2.4 Insertion of the CAN port termination resistor

To insert the CAN port termination resistor, place micro-switch 2 in position ON. Let micro-switch 1 in position OFF. 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



4 IMPOSTAZIONI


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


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

1.		Touch the LEFT and ENTER key 2 s: the display will show the frame "Network Status (CAN)".
3.		Touch the ENTER key: the display will show the main menu.
3.		Touch the UP or DOWN key to select a menu.
4.		Touch the ENTER key to access a menu: the display will show the frame "Input Password".
5.		Touch the ENTER key again.
6.		Touch the UP or DOWN key to set "-19".
7.		Touch the ENTER key: the display will show the frame of the menu.
8.		Touch the UP or DOWN key to select a parameter.
9.		Touch the ENTER key.
11.		Touch the UP or DOWN key to set the value.
12.		Touch the ENTER key.
13.		Touch the ON/STAND-BY key a few times to return to the previous displays.

5

CONFIGURATION PARAMETERS

N.	PARAMETER	DEF.	*Parameters* MENU	MIN... MAX.	
1	Date Char Separator	/	ASCII character as data separator	-	
2	Year format	YY	year format	YY = 2 numbers YYYY = 4 numbers	
3	Date format	dd mm yy	data format	yy mm dd = year, month and day mm dd yy = month, day and year dd mm yy = day, month and year	
4	Time Char Separator	:	ASCII character as hour separator	-	
5	Time With Sec	YES	showing time with seconds	NO = no YES = yes	
6	Time AM/PM	NO	time format	NO = 24 h YES = 12 h	
	7	Backlight Mode	TIME	backlight type TIME= with Backlight Timeout on = on TIME= with Backlight Timeout	
	8	Backlight Timeout	60	timeout backlight	0... 240 s
	9	I/O Timeout	60	delay remote I/O disabling from CAN communication absence	0... 240 s
	10	Refresh Timeout	0	pages refresh timeout	0... 100 s
	11	Beep Mode	0	beep type when touching the display	0 = never 1 = always
	12	Print Loading	NO	showing "Loading..." during project page loading	NO = no YES = yes
	13	Print Frame	0	showing frames instead low size pages	0 = no 1 = yes




N.	PARAMETER	DEF.	"Networks > CAN bus" MENU	MIN... MAX.
14	MyNode	99	CAN address	1... 127
15	Master	-	reserved	-
16	Baud	Auto	CAN baud rate	20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous
17	Timeout	5	delay exclusion device in CAN network from absence of communication	0... 240 s
18	Network Node	-	physical node joined to the logic node	[1] 1... [32] 127

Id

N.	PARAMETER	DEF.	*Networks > UART* MENU	MIN... MAX.
19	Address	1	MODBUS address	1... 247
20	Parity	even	MODBUS parity	none = none odd = odd even = even
21	Baudrate	9600	MODBUS baud rate	1200 = 1,200 baud 2400 = 2,400 baud 4800 = 4,800 baud 9600 = 9,600 baud 19200 = 19,200 baud 28800 = 28,800 baud 38400 = 38,400 baud 57600 = 57,600 baud
22	Bit Stop	1 bit	MODBUS stop bit	1 bit = 1 bit 2 bit = 2 bit

6 TECHNICAL SPECIFICATIONS		
Purpose of the control device		Function controller
Construction of the control device		Built-in electronic device
Container		White, self-extinguishing
Category of heat and fire resistance		D
Measurements	Models for panel mounting	111.4 x 76.4 x 25.0 mm (4 3/8 x 3 x 1 in)
	Models for wall mounting	111.4 x 76.4 x 18.5 mm (4 3/8 x 3 x 3/4 in)
Mounting methods for the control device		According to the model, panel mounting (with elastic holding flaps), wall mounting (with bolts and fastening screws) or in the most common flush mounting box (with fastening screws)
Degree of protection provided by the covering		IP30 (IP65 in case of panel mounting)
Connection method	Models for panel mounting	Removable screw terminal blocks for wires up to 1 mm²
	Models for wall mounting	Fixed screw terminal blocks for wires up to 1 mm²
Maximum permitted length for connection cables		
Power supply: 10 m (32.8 ft)		CAN port: - 1,000 m (3,280 ft) with baud rate 20.000 baud - 500 m (1,640 ft) with baud rate 50.000 baud - 250 m (820 ft) with baud rate 125.000 baud - 50 m (164 ft) with baud rate 500.000 baud. Over 10 m (32.8 ft) use a shielded cable
Operating temperature		From -10 to 55 °C (from 14 to 131 °F)
Storage temperature		From -20 to 70 °C (from -4 to 158 °F)
Operating humidity		Relative humidity without condensate from 5 to 95%
Pollution status of the control device		2
Compliance		
RoHS 2011/65/EC		WEEE 2012/19/EU
REACH (EC) Regulation N. 1907/2006		EMC 2014/30/UE RED 2014/53/UE
Power supply		24 VAC (±15%), 50/60 Hz (±3 Hz), max. 4 VA not insulated or 12... 30 VDC, max. 2 W not insulated (independent power supply or by a controller)
Earthing methods for the control device		None
Rated impulse-withstand voltage		I
Over-voltage category		330 V
Software class and structure		A
Clock		By request (incorporated secondary lithium battery)
Clock drift		≤ 55 s/month at 25 °C (77 °F)
Clock battery autonomy in the absence of a power supply		6 months
Clock battery charging time		24 h (the battery is charged by the power supply of the device)
Displays		Colour LCD graphic display
Alarm buzzer		Built-in
Communications ports		
1 CAN port		1 USB port

	N.B. The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.
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