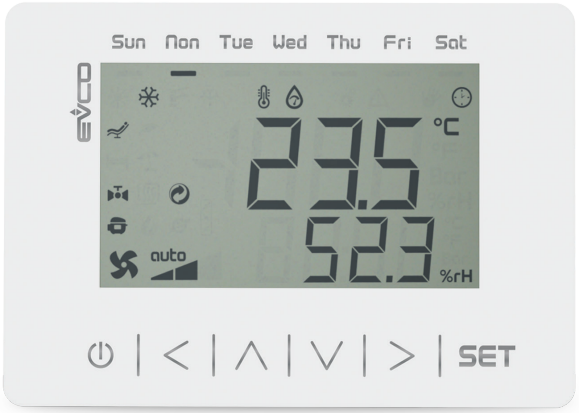
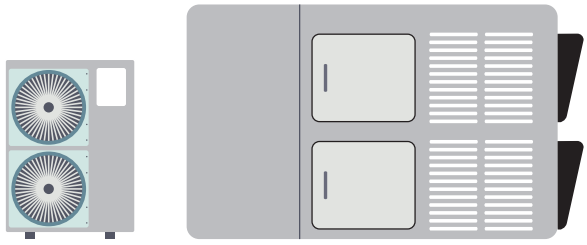


Applications



Heat pump

Air handling unit

EVJ LCD

Remote User Interfaces

- Static LCD display
- 6 capacitive touch keys
- INTRABUS or RS-485 communication port
- Built-in alarm buzzer
- Built-in temperature and humidity sensors
- Built-in Bluetooth Low Energy sensor

USE
Device for indoor applications

IMPORTANT
Read this document thoroughly before installation and before use of the device and follow all recommendations; keep this document with the device for future consultation.
Only use the device in the way described in this document; do not use the same as a safety device

CONSIDER THE ENVIRONMENT
Please read careffully and save this document

DISPOSAL
The device must be disposed of in compliance with local standards regarding the collection of electric and electronic equipment

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Introduction

The remote user interfaces **EVJ LCD** can be used as remote displays for a wide range of EVCO controllers for HVAC applications and many programmable controllers in the **c-pro 3 range**.

Depending on the model, a number of different features are installed:

- 1 or 2 analogue inputs
- 2 digital outputs
- 1 built-in temperature and humidity sensor
- 1 built-in Bluetooth BLE communication module

Equipped with INTRABUS proprietary port, they provide an effective and economical alternative for point-to-point applications.

With their clean modern lines, LCD display, function icons and 6 capacitive keys, these interfaces blend perfectly with any type of environment also given their wall mounting and the option of their own or controller power feed. The version housed in a built-in box enables it to be powered directly from the mains (115...230 VAC) with no need for transformers.

Purchasing codes

Models for wall mounting

The following table shows the available EVJ LCD models and the relatives purchaising codes

Features	Models for wall mounting				
	EVJD900N2VW	EVJD900N2VWTX	EVJD900N2VWIV	EVJD920N2VW	EVJD920N2VWIV
Power supply					
12 VAC/DC	•	•	•	•	•
Analog input					
NTC	1	1	1	1	1
User interface					
Static LCD display	•	•	•	•	•
Connections					
Fixed screw terminal blocks	•	•	•	•	•
Communication ports					
INTRABUS	1		1	1	1
RS-485 INTRABUS		1			
Other Features					
Alarm and signalling buzzer	•	•	•	•	•
Built-in temperature and humidity sensor				•	•
Built-in Bluetooth Low Energy sensor			•		•

For further informations look at chapter "Technical data"

Purchasing codes description

Models for wall mounting

Features	Codes
12 VAC/DC - Static LCD display - Wall mounting - NTC - INTRABUS - Alarm and signalling buzzer	**EVJD900N2VW**
12 VAC/DC - Static LCD display - Wall mounting - NTC - RS-485 INTRABUS - Alarm and signalling buzzer	**EVJD900N2VWTX**
12 VAC/DC - Static LCD display - Wall mounting - NTC - INTRABUS - Alarm and signalling buzzer - Built-in Bluetooth Low Energy sensor	**EVJD900N2VWIV**
12 VAC/DC - Static LCD display - Wall mounting - NTC - INTRABUS - Alarm and signalling buzzer - Built-in temperature and humidity sensor	**EVJD920N2VW**
12 VAC/DC - Static LCD display - Wall mounting - NTC - NTC - INTRABUS - Alarm and signalling buzzer - Built-in Bluetooth Low Energy sensor - Built-in temperature and humidity sensor	**EVJD920N2VWIV**

Purchasing codes

Models for wall mounting with back-slot for in-wall box

The following table shows the available EVJ LCD models and the relatives purchaising codes

Features	Models for wall mounting with back-slot for in-wall box			
	EVJD902N9VP	EVJD902N9VPIV	EVJD922N9VP	EVJD922N9VPIV
Power supply				
115... 230 VAC	•	•	•	•
Analog input				
NTC	2	2	2	2
Digital output (electromechanical relays)				
Relay 1	1 A	1 A	1 A	1 A
Relay 2	1 A	1 A	1 A	1 A
User interface				
Static LCD display	•	•	•	•
Installation mode				
Wall-mounted with back-slot for in-wall box	•	•	•	•
Connections				
Fixed screw terminal blocks	•	•	•	•
Communication ports				
INTRABUS	•	•	•	•
Other Features				
Alarm and signalling buzzer	•	•	•	•
Built-in temperature and humidity sensor			•	•
Built-in Bluetooth Low Energy sensor		•		•

For further informations look at chapter "Technical data"

Purchasing codes description

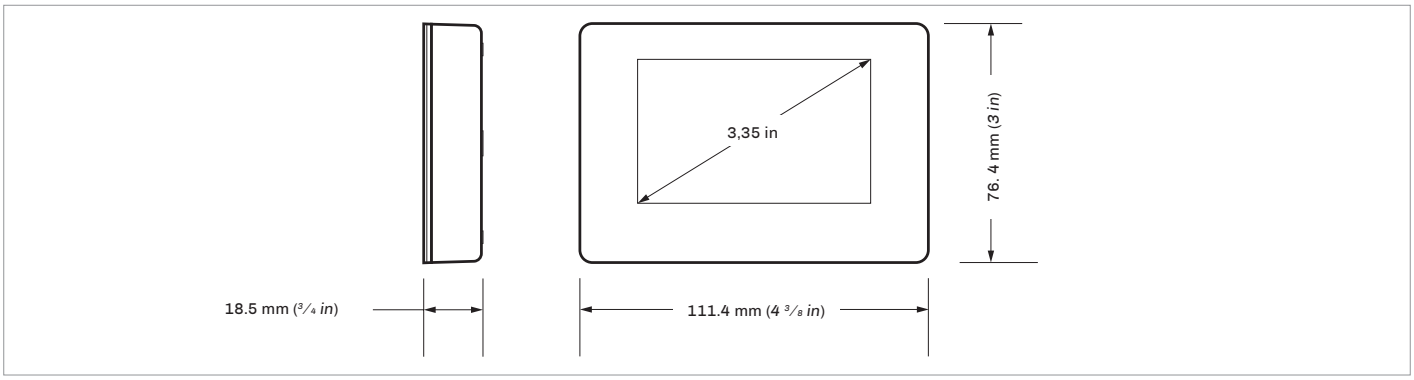
Models for wall mounting with back-slot for in-wall box

Features	Codes
115... 230 VAC - Static LCD display - Wall-mounted with back-slot for in-wall box - 2 NTC - 2 relais - Alarm and signalling buzzer - INTRABUS	**EVJD902N9VP**
115... 230 VAC - Static LCD display - Wall-mounted with back-slot for in-wall box - 2 NTC - 2 relais - Alarm and signalling buzzer - INTRABUS - Built-in Bluetooth Low Energy sensor	**EVJD902N9VPIV**
115... 230 VAC - Static LCD display - Wall-mounted with back-slot for in-wall box - 2 NTC - 2 relais - Alarm and signalling buzzer - INTRABUS - Built-in temperature and humidity sensor	**EVJD922N9VP**
115... 230 VAC - Static LCD display - Wall-mounted with back-slot for in-wall box - 2 NTC - 2 relais - Alarm and signalling buzzer - INTRABUS - Built-in Bluetooth Low Energy sensor - Built-in temperature and humidity sensor	**EVJD922N9VPIV**

Dimensions

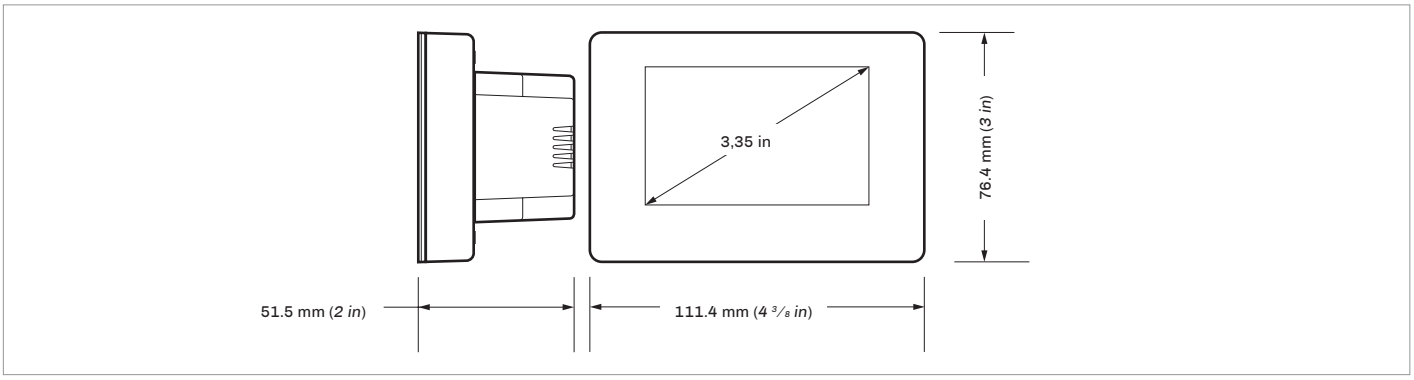
Models for wall mounting

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



Models for wall mounting with back-slot for in-wall box

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

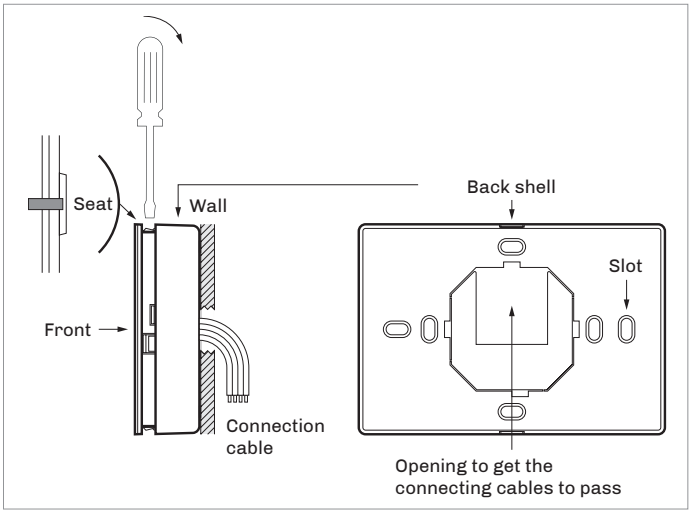


Installation

Models for wall mounting

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

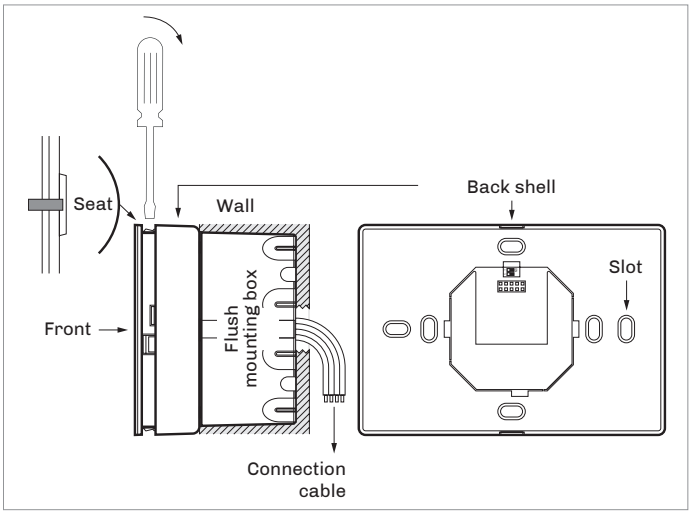
1. Unhook the back shell from the front through a screwdriver and the proper seat
   In case of wall mounting
   - Lean the back shell against the wall in a position suitable to get the connecting cable to pass through the proper opening
   - Use the slots of the back shell as template to drill 4 holes 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
2. Make the electrical connection without powering up the device
3. Fasten the front of the device at the back shell



Models for wall mounting with back-slot for in-wall box

Wall mounting 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. Fasten the back shell at the box with 4 screws. Countersunk head screws are suggested.
3. Make the electrical connection without powering up the device
4. Fasten the front of the device at the back shell



WARNINGS FOR INSTALLATION

- Ensure that the working conditions are within the limits
- 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

Electrical connections

WARNINGS
- 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 and RS-485 MODBUS networks by using a twisted pair

Models for wall mounting

Connectors and parts

Connector 1

Number	Description
1	INTRABUS port reference (GND) or RS-485 signal B (-) (according to the model)
2	INTRABUS port data (IB) or RS-485 signal A (+) (according to the model)
3	Device power supply (12 VAC/DC). If the device is fed by DC power, connect terminal minus
4	Device power supply (12 VAC/DC). If the device is fed by DC power, connect terminal plus
5	AI4 analog input (NTC)
6	AI4 analog input reference (GND)

Connector 2

Number	Description
	Reserved

Micro-switch

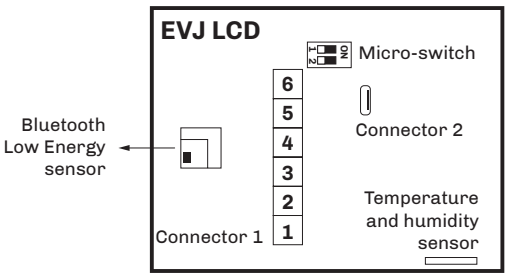
Number	Description
	In models with RS-485 port, to insert the RS-485 port termination resistor (not present otherwise)

Temperature (AI3) and humidity (AI5) sensor

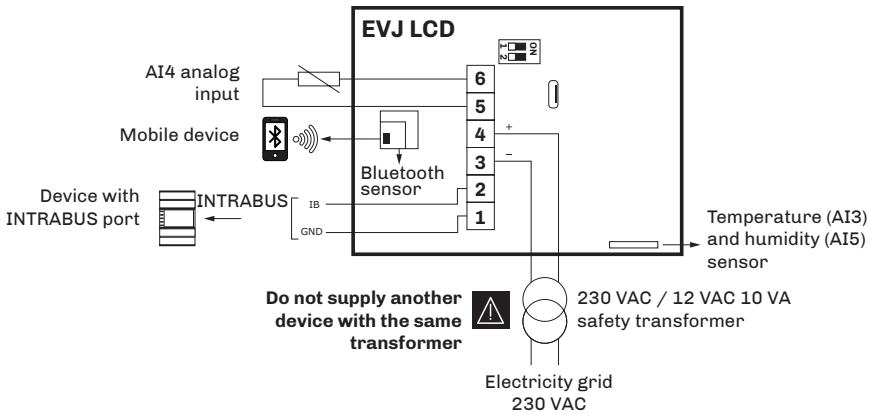
Number	Description
	According to the model

Bluetooth Low Energy sensor

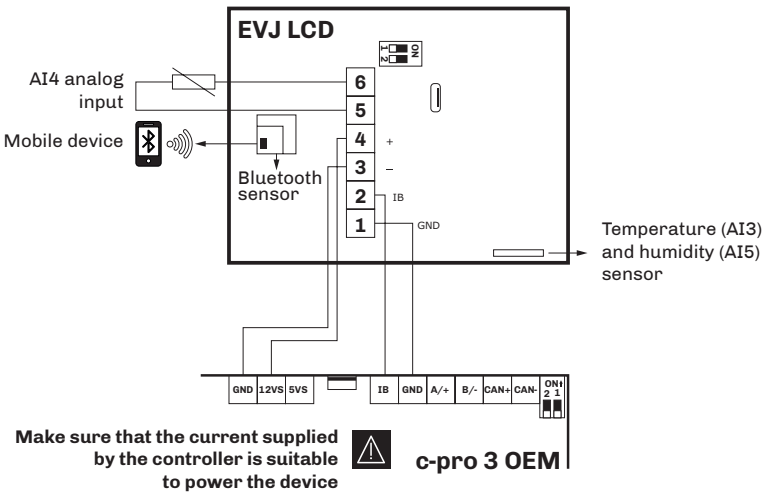
Number	Description
	According to the model



Electrical connection with independent power supply



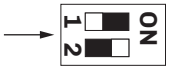
Electrical connection with device powered by a controller
Example: ***c-pro 3 OEM***



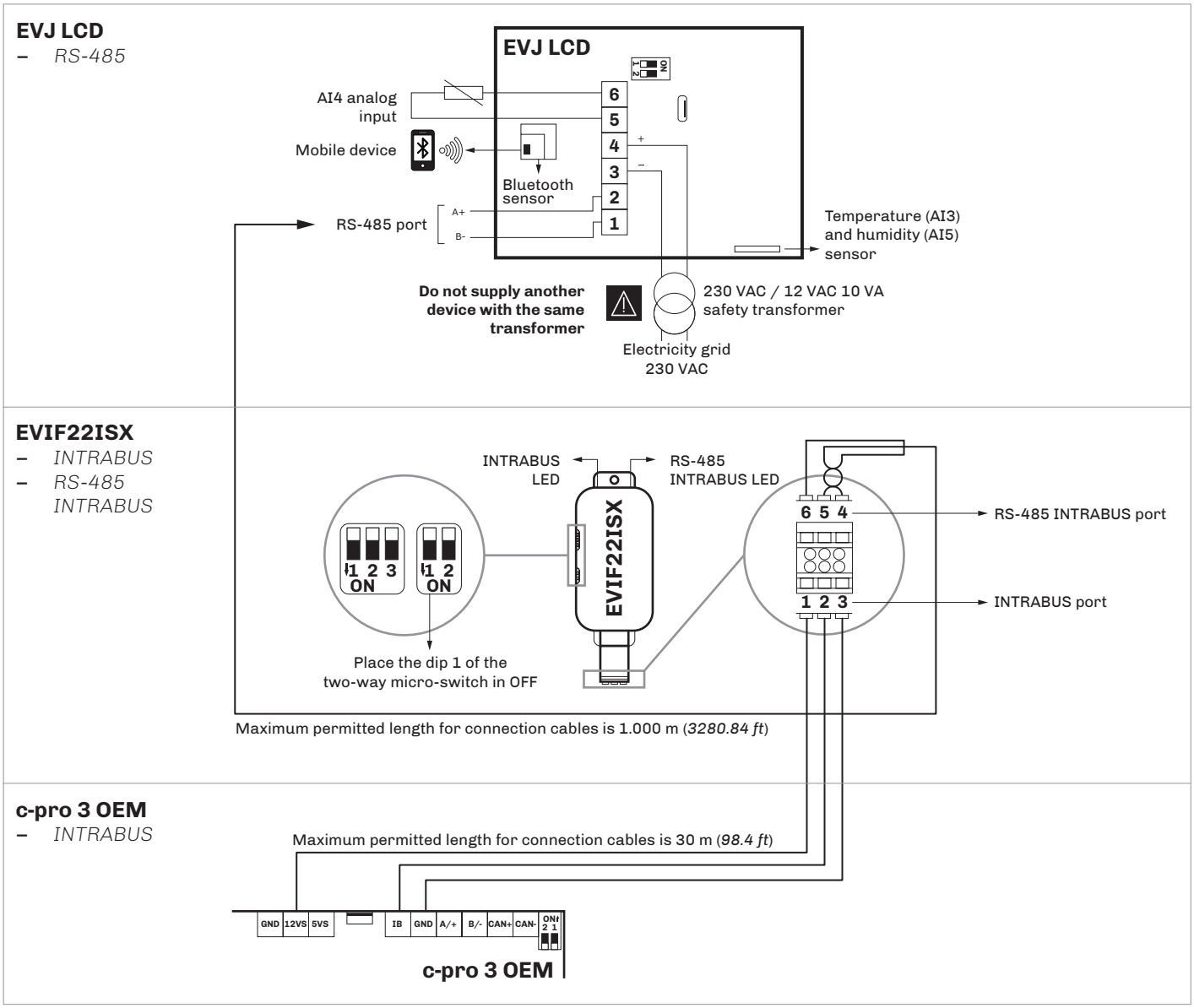
Insertion of the RS-485 port termination resistor

To insert the RS-485 port termination resistor:
- Place **micro-switch 2 in position ON**
- Let the **micro-switch 1 in position OFF**

The micro-switch is on the back of the device (remove the back shell from the front before)



Electrical connection for models with RS-485 port

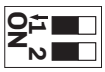


Connectors description

Port	Terminal	Meaning
INTRABUS	1	12 V
	2	INTRABUS port data
	3	INTRABUS port reference (GND)
RS-485	4	RS-485 port reference (GND)
	5	RS-485 port negative signal
	6	RS-485 port positive signal

Micro-switch EVIF22ISX

– Place the **dip 1 of the two-way micro-switch in OFF**



The micro-switch is on the EVIF22ISX device side

Models for wall mounting with back-slot for in-wall box

Connectors and parts

Connector 1

Number	Description
1	Device power supply (115... 230 VAC)
2	Device power supply (115... 230 VAC)
3	DO2 digital output normally open contact (1 A res. at 250 VAC)
4	DO1 digital output normally open contact (1 A res. at 250 VAC)
5	DO1 and DO2 digital outputs common contact (max. 2 A)

Connector 2

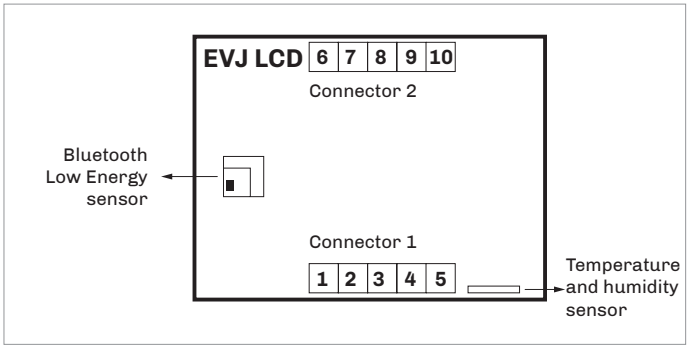
Number	Description
6	AI2 analog input (NTC)
7	AI1 analog input (NTC)
8	AI1 and AI2 analog inputs reference (GND)
9	INTRABUS port data (IB)
10	INTRABUS port reference (GND)

Temperature (AI3) and humidity (AI5) sensor

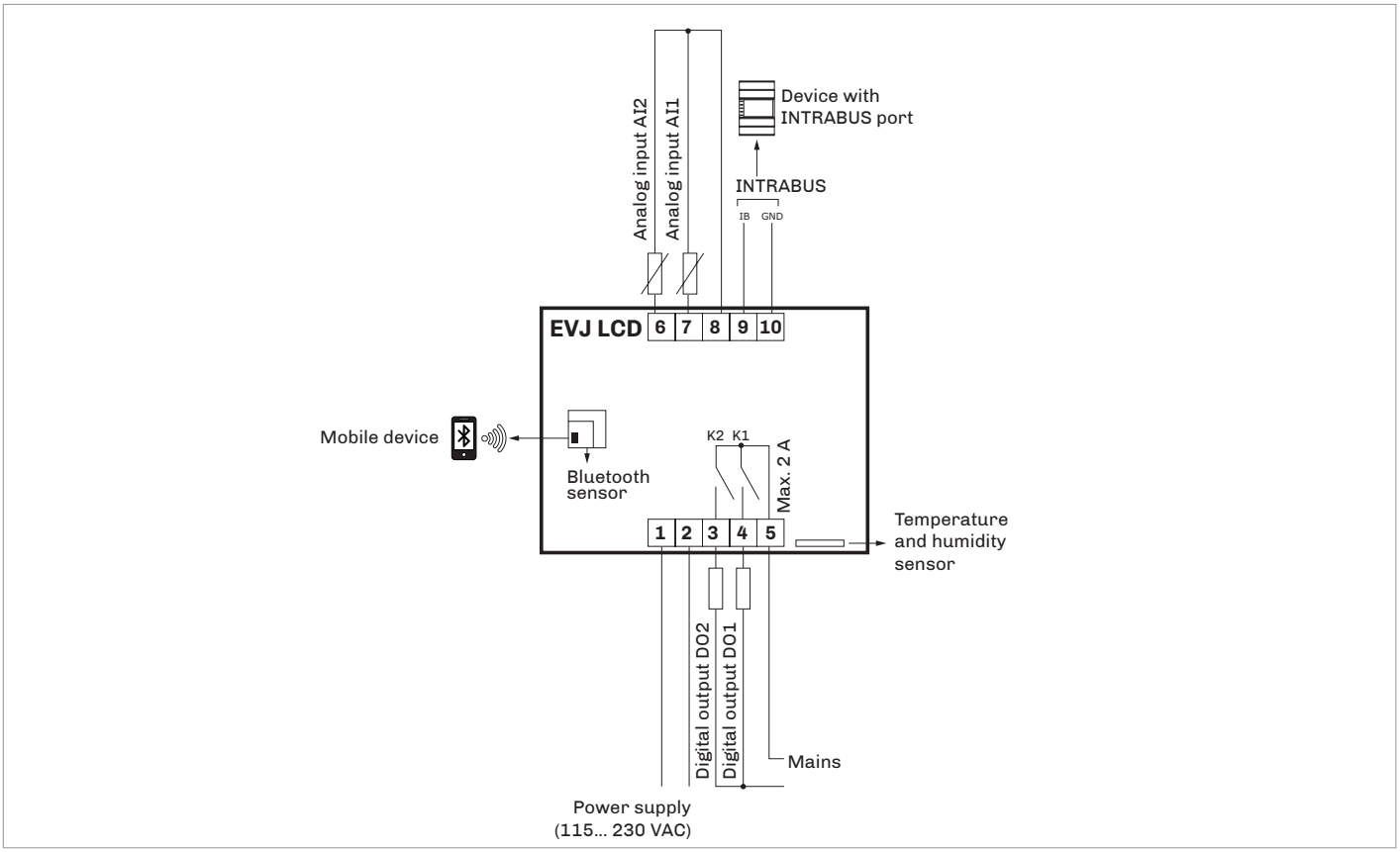
Number	Description
	According to the model

Bluetooth Low Energy sensor

Number	Description
	According to the model



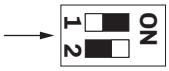
Electrical connection with independent power supply



Insertion of the RS-485 port termination resistor

To insert the RS-485 port termination resistor::
- Place **micro-switch 2 in position ON**
- Let the **micro-switch 1 in position OFF**

The micro-switch is on the back of the device
(remove the back shell from the front before)

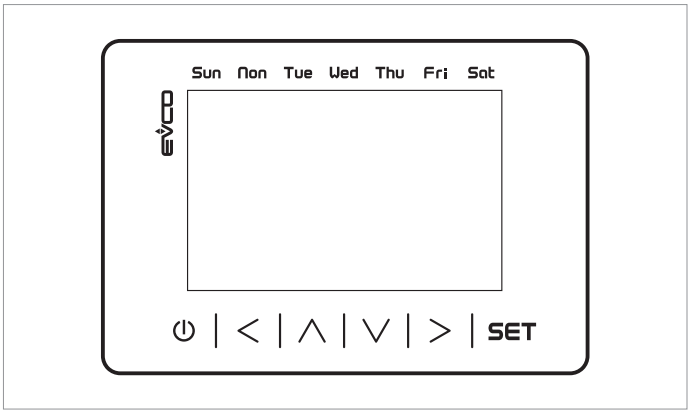


WARNINGS FOR ELECTRICAL CONNECTION
- If using an electrical or pneumatic screwdriver, adjust the tightening torque
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power
- Make sure that the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

User interface

Key description

Key		Instructions
⏻		ON/STAND-BY
<	>	LEFT AND RIGHT
∧	∨	UP AND DOWN
SET		SET

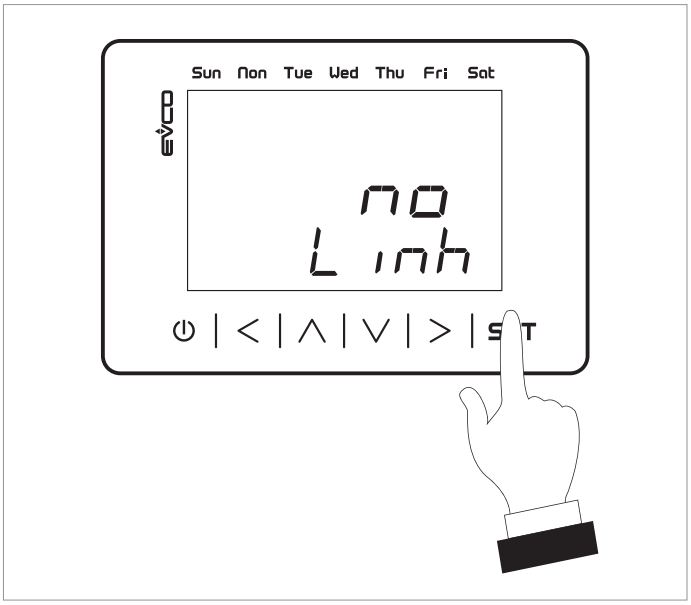


Switching ON/OFF the device

Progression	Description
1	Connect the power supply: it will be started an internal test that takes typically a few seconds
2	Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
3	To switch OFF the device switch OFF the power supply

Accessing the procedure

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays



Accessing the menù

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
∨		Touch **DOWN** key: the display will show "*Mnu*" and "*PAr*"
SET		Touch **SET** key: the display will show "*PSU*"- Password
SET		Touch **SET** key: the display will show "*0000*"
∧	∨	Touch **UP** or **DOWN** keys to set-up the password "*-019*"
SET		Touch **SET** key
∧	∨	Touch **UP** or **DOWN** keys to see the menu
SET		Touch **SET** key to select the menu
∧	∨	Touch **UP** or **DOWN** keys to see the parameters
SET		Touch **SET** key to access the value
∧	∨	Touch **UP** or **DOWN** keys to set-up the value
SET		Touch **SET** key to confirm the value
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

Settings menu

Sensitive areas description and parameters settings

WARNINGS
Turn off the power after changing the configuration

Keys

"InF" menu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
SET		Touch **SET** key to access the parameters
∧	∨	Touch **UP** or **DOWN** keys to see the parameters
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

"PAr" menu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
∨		Touch **DOWN** key: the display will show "*Mnu*" and "*PAr*"
SET		Touch **SET** key: the display will show "*PSU*"- Password
SET		Touch **SET** key: the display will show "*0000*"
∧	∨	Touch **UP** or **DOWN** keys to set-up the password "*-019*"
SET		Touch **SET** key
∧	∨	Touch **UP** or **DOWN** keys to see the parameters
SET		Touch **SET** key to access the value
∧	∨	Touch **UP** or **DOWN** keys to set-up the value
SET		Touch **SET** key to confirm the value
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

Parameters settings

"InF" menu

N.	Param.	Def.	"InF" menu	Min/max
1	Prn	-	Project number	-
2	Pru	-	Project version	-
3	Prr	-	Project revision	-
4	FUu	-	Firmware version	-
5	FUr	-	Firmware revision	-
6	FUS	-	Firmware subversion	-
7	HUu	-	Hardware version	-
8	HUr	-	Hardware revision	-

"PAr" menu

N.	Param.	Def.	"PAr" menu	Min/max
9	bKU	15	Backlight intensity	0... 100 fixed value 30 in the models with incorporated temperature and humidity sensor
10	bKt	30	Backlight timeout	0... 255 s fixed value 30 in the models with incorporated temperature and humidity sensor
11	bKM	tiME	Backlight mode	off=off on=on (not used in the models with incorpo-rated temperature and humidity sensor) tiME=with bKt
12	EU3	OFF	Enable compatibility with Vled 3	On... OFF

"nEt > Itb" menu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
⋁		Touch **DOWN** key twice: the display will show "*Mnu*" and "*nEt*"
SET		Touch **SET** key: the display will show "*nEt*" and "*Itb*"
SET		Touch **SET** key
⋀	⋁	Touch **UP** or **DOWN** keys to see the parameters
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

"nEt > Itb" menu

N.	Param.	Def.	"nEt > Itb" menu	Min/max
13	nOd	4	INTRABUS node	1... 127 se EU3C=On, nOdE=3
14	StA	-	INTRABUS status communication	OK... Err
15	nrH	-	Number of received INTRABUS packages	0... 999
16	ntH	-	Number of transmitted INTRABUS packages	0... 999
17	nEr	-	Number of INTRABUS receipts in error	0... 999
18	bAu	-	INTRABUS baud rate	19200
19	Stb	1	INTRABUS bit stop number	0... 2
20	PtY	2	INTRABUS parity	0... 2

"NET > BLE" menu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
⋁		Touch **DOWN** key twice: the display will show "*Mnu*" and "*nEt*"
SET		Touch **SET** key: the display will show "*Mnu*" and "*Itb*"
⋁		Touch **DOWN** key: the display will show "*Mnu*" and "*bLE*"
SET		Touch **SET** key
⋀	⋁	Touch **UP** or **DOWN** keys to see the parameters
SET		Touch **SET** key to access the value
⋀	⋁	Touch **UP** or **DOWN** keys to set-up the value (available only for "Pty" parameter)
SET		Touch **SET** key to confirm the value
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

"NET > BLE" menu

N.	Param.	Def.	"NET > BLE" menu	Min/max
21	StA	-	Enable Bluetooth	On... OFF
22	nrH	-	Number of BLE packages received	0... 999
23	ntH	-	Number of BLE transmitted received	0... 999
24	nEr	-	Number of intercepted BLE errors	0... 999
25	bAu	-	BLE baud rate	19200
26	Stb	1	BLE bit stop number	0... 2
27	PtY	2	BLE parity	0... 2

"diA" menu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
⋁		Touch **DOWN** key three times: the display will show "*Mnu*" and "*diA*"
SET		Touch **SET** key
⋀	⋁	Touch **UP** or **DOWN** keys to see the parameters
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

"diA" menu

N.	Param.	Def.	"diA" menu	Min/max
28	MEm	-	EEPROM memory status	OK... Err
29	PSU	-	Power supply voltage status	OK... Err

"dEb" menu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
∨		Touch **DOWN** key for times: the display will show "*Mnu*" and "*dEb*"
SET		Touch **SET** key
∧	∨	Touch **UP** or **DOWN** keys to see the parameters
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

"dEb" menu

N.	Param.	Def.	"dEb" menu	Min/max
30	PSU	-	Power supply voltage value	-
31	P1U	-	AI1 analog input reading	-
32	P2U	-	AI2 analog input reading	-
33	P3U	-	Reserved	-
34	P4U	-	AI4 analog input reading	-
35	tEm	-	Incorporated sensor temperature reading (AI3)	-
36	Hr	-	Incorporated sensor humidity reading (AI5)	-

"dEb > unL" submenu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
∨		Touch **DOWN** key for times: the display will show "*Mnu*" and "*dEb*"
SET		Touch **SET** key
∧	∨	Touch **UP** or **DOWN** keys to see the parameters
∨		Touch **DOWN** key seven times: the display will show "*unL*"
SET		Touch **SET** key
∧	∨	Touch **UP** or **DOWN** keys to see the parameters
SET		Touch **SET** key to access the value
∧	∨	Touch **UP** or **DOWN** keys to set-up the value
SET		Touch **SET** key to confirm the value
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

"dEb > unL" submenu

N.	Param.	Def.	"dEb > unL" submenu	Min/max
37	dO1	-	DO1 digital output status	On... OFF
38	dO2	-	DO2 digital output status	On... OFF

"CnF" menu

Key		Instructions
SET		Touch **SET** key for 7 seconds: the display will show "*Mnu*" and "*Inf*"
∨		Touch **DOWN** key five times: the display will show "*Mnu*" and "*CnF*"
SET		Touch **SET** key
∧	∨	Touch **UP** or **DOWN** keys to see the parameters
⏻		Touch **ON/STAND-BY** key few times to return to the previous displays

"CnF" menu

N.	Param.	Def.	"CnF" menu	Min/max
39	bLE	-	Bluetooth availability	On... OFF
40	iPb	-	Incorporated sensor	t rH=temperature and humidity none=no sensor
41	EHt	-	Back-slot for flush mounting box	On... OFF

Technical data

Type	Description	
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	
Dimensioni	Models for wall mounting	– 111.4 x 76.4 x 18.5 mm (*4 3/8 x 3 x 3/4 in*)
	Models for wall mounting with back-slot for in-wall box	– 111.4 x 76.4 x 51.5 mm (*4 3/8 x 3 x 2 in*)
Mounting methods for the control device	– Wall mounting (with bolts and fastening screws) – In the most common flush mounting box (with fastening screws)	
Degree of protection provided by the covering	IP30	
Connection method	Fixed screw terminal blocks for wires up to 1 mm²	
Maximum permitted length for connection cables	Power supply: 10 m (*32.8 ft*)	
	Analogue inputs: 10 m (*32.8 ft*)	
	Digital outputs: 10 m (*32.8 ft*)	
	INTRABUS port: – 10 m if the device is powered by a controller – 30 m with independent power supply	
	RS-485 MODBUS port: – 1.000 m	
Operating temperature	0 – 40 °C (*32 – 104 °F*)	
Storage temperature	-20 – 70 °C (*-4 – 158 °F*)	
Operating humidity	Relative humidity without condensate from 5 to 95%	
Pollution status of the control device	2	
Compliance	– RoHS 2011/65/CE	
	– WEEE 2012/19/EU	
	– REACH (EC) regulation no. 1907/2006	
	– EMC 2014/30/UE	
	– RED 2014/53/UE	
Power supply	Models for wall mounting	12 VAC (±15%), 50/60 Hz (±3 Hz), max. 2 VA not insulated or 12 VDC (±15%), max. 1 W not insulated (independent power supply or by a controller)
	Models for wall mounting with back-slot for in-wall box	115... 230 VAC (+10% -15%) 50/60 Hz (±3 Hz) max. 3 VA insulated
Earthing methods for the control device	None	
Rated impulse-withstand voltage	Models for wall mounting	330 V
	Models for wall mounting with back-slot for in-wall box	2.5 KV
Over-voltage category	Models for wall mounting	I
	Models for wall mounting with back-slot for in-wall box	II
Software class and structure	A	
Analogue inputs	Models for wall mounting	1 for NTC probes
	Models for wall mounting with back-slot for in-wall box	2 for NTC probes

Type	Description	
NTC probes	Measurement field	-40 – 110 °C (*from -58 – 230 °F*)
	Resolution	0.1 °C (*1 °F*)
Digital outputs	Models for wall mounting	none
	Models for wall mounting with back-slot for in-wall box	2 with electromechanical relay (K1 and K2 relay)
K1 relay	SPST, 1 res. A at 250 VAC	
K2 relay	SPST, 1 res. A at 250 VAC	
Azioni di Tipo 1 o di Tipo 2	Tipo 1	
Caratteristiche complementari delle azioni di Tipo 1 o di Tipo 2	C	
Visualizzazioni	Display LCD a due righe e icone funzione	
Buzzer di allarme	Incorporato	
Incorporated sensors	Temperature and humidity (according to the model)	
	Low Energy Bluetooth (according to the model)	
Working range incorporated temperature humidity sensor	0... 40 °C (*32... 104 °F*)	
Working range incorporated humidity sensor	10... 70% of relative humidity	
Communications ports	1 INTRABUS or RS-485 ports with INTRABUS communication protocol (according to the model)	

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