



# 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 sensor
- | 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 carefully 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/digital input
- 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 panel and 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

### 12 VAC/DC models for panel or wall mounting

The following table shows the available EVJ LCD models and the relative purchasing codes

Features	12 VAC/DC models for panel or wall mounting					
	EVJD900N2	EVJD900N2VW	EVJD900N2VWTX	EVJD900N2VWIV	EVJD920N2VW	EVJD920N2VWIV
<b>Power supply</b>						
12 VAC/DC	•	•	•	•	•	•
<b>Analog/digital input</b>						
NTC/DI		1	1	1	1	1
<b>User interface</b>						
Static LCD display	•	•	•	•	•	•
<b>Installation mode</b>						
Panel mounting (black front)	•					
Wall mounting (white front)		•	•	•	•	•
<b>Connections</b>						
Removable screw terminal	•					
Fixed screw terminal blocks		•	•	•	•	•
<b>Communication ports</b>						
INTRABUS	1	1		1	1	1
RS-485 INTRABUS			1			
<b>Other Features</b>						
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

### 12 VAC/DC models for panel or wall mounting

Features	Codes
12 VAC/DC - Static LCD display - Panel mounting - INTRABUS - Alarm and signalling buzzer	<b>EVJD900N2</b>
12 VAC/DC - Static LCD display - Wall mounting - NTC/DI - INTRABUS - Alarm and signalling buzzer	<b>EVJD900N2VW</b>
12 VAC/DC - Static LCD display - Wall mounting - NTC/DI - RS-485 INTRABUS - Alarm and signalling buzzer	<b>EVJD900N2VWTX</b>
12 VAC/DC - Static LCD display - Wall mounting - NTC/DI - INTRABUS - Alarm and signalling buzzer - Built-in Bluetooth Low Energy sensor	<b>EVJD900N2VWIV</b>
12 VAC/DC - Static LCD display - Wall mounting - NTC/DI - INTRABUS - Alarm and signalling buzzer - Built-in temperature and humidity sensor	<b>EVJD920N2VW</b>
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	<b>EVJD920N2VWIV</b>

## Purchasing codes

### 115... 230 VAC models for wall mounting

The following table shows the available EVJ LCD models and the relative purchasing codes

Features	115... 230 VAC models for wall mounting			
	EVJD902N9VP	EVJD902N9VPIV	EVJD922N9VP	EVJD922N9VPIV
<b>Power supply</b>				
115... 230 VAC	•	•	•	•
<b>Analog/digital inputs</b>				
NTC/DI	2	2	2	2
<b>Digital outputs (electromechanical relays)</b>				
Relay 1	1 A	1 A	1 A	1 A
Relay 2	1 A	1 A	1 A	1 A
<b>User interface</b>				
Static LCD display	•	•	•	•
<b>Installation mode</b>				
Wall mounted (white front)	•	•	•	•
<b>Connections</b>				
Fixed screw terminal blocks	•	•	•	•
<b>Communication ports</b>				
INTRABUS	•	•	•	•
<b>Other Features</b>				
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

### 115... 230 VAC models for wall mounting

Features	Codes
115... 230 VAC - Static LCD display - Wall mounted - 2 NTC/DI - 2 relays - Alarm and signalling buzzer - INTRABUS	<b>EVJD902N9VP</b>
115... 230 VAC - Static LCD display - Wall mounted - 2 NTC/DI - 2 relays - Alarm and signalling buzzer - INTRABUS - Built-in Bluetooth Low Energy sensor	<b>EVJD902N9VPIV</b>
115... 230 VAC - Static LCD display - Wall mounted - 2 NTC/DI - 2 relays - Alarm and signalling buzzer - INTRABUS - Built-in temperature and humidity sensor	<b>EVJD922N9VP</b>
115... 230 VAC - Static LCD display - Wall mounted - 2 NTC/DI - 2 relays - Alarm and signalling buzzer - INTRABUS - Built-in Bluetooth Low Energy sensor - Built-in temperature and humidity sensor	<b>EVJD922N9VPIV</b>

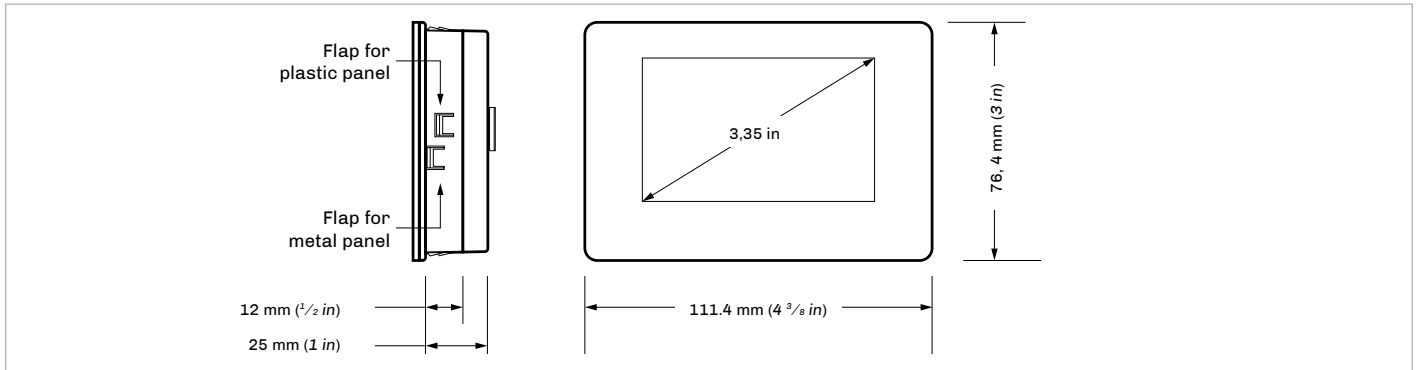
## Dimensions

### 12 VAC/DC models for panel mounting

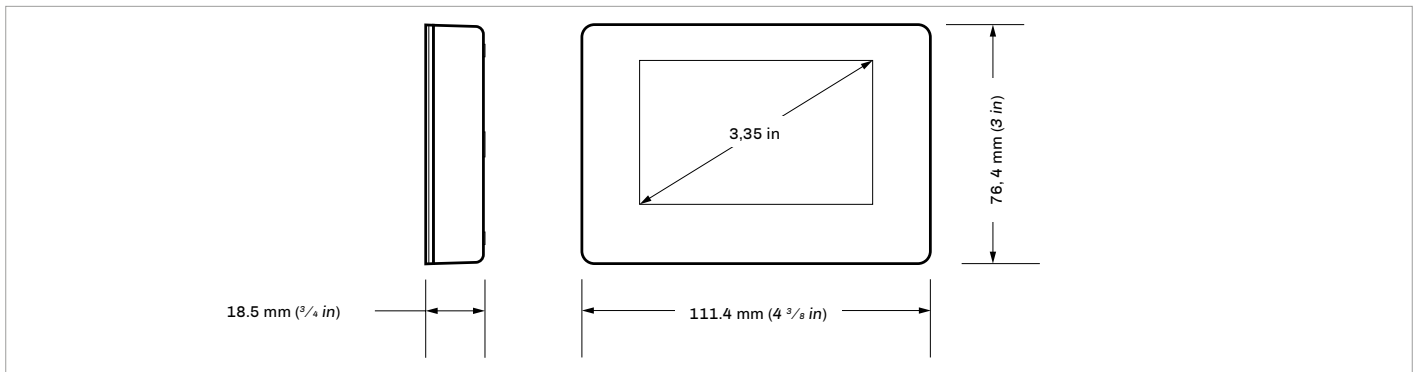


**WARNINGS**

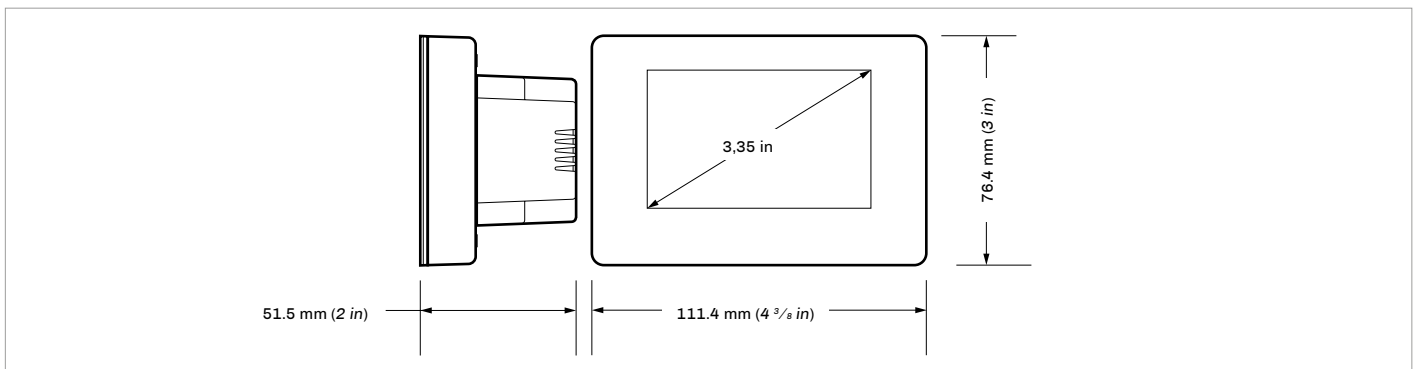
- The thickness of a metal panel must be between 0.8 and 1.5 mm ( $\frac{1}{32}$  and  $\frac{1}{16}$  in), while that for a plastic panel must be between 0.8 and 3.4 mm ( $\frac{1}{32}$  and  $\frac{1}{8}$  in)
- The measurements of drilling template must be 107.6 x 72.6 mm ( $3\frac{15}{16}$  x  $2\frac{7}{8}$  in), with rounded corners R 3.0 mm ( $\frac{1}{8}$  in).



### 12 VAC/DC models for wall mounting



### 115... 230 VAC models for wall mounting



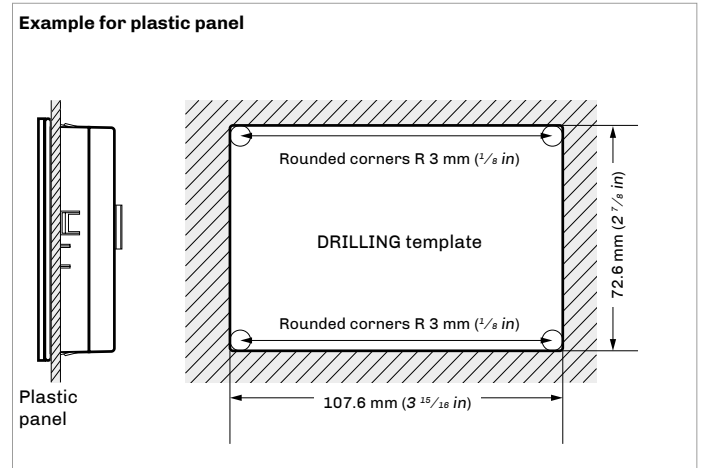


## Installation

### 12 VAC/DC models for panel mounting

To be fitted to a panel with elastic holding flaps

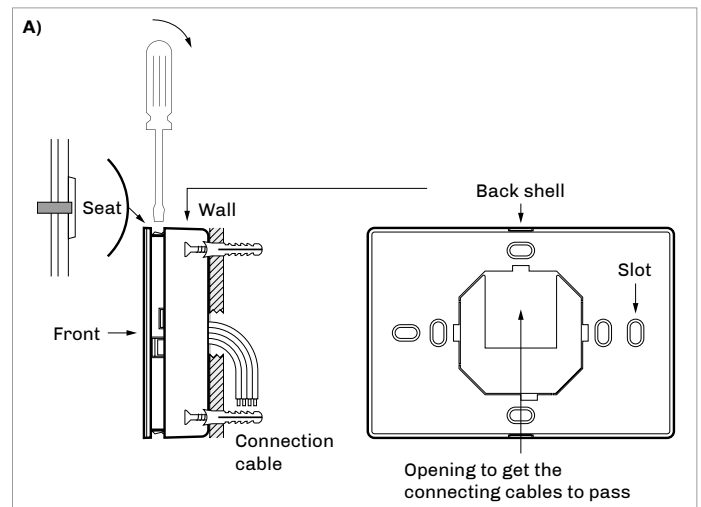
1. Make a hole of 107.6 mm ( $3\frac{15}{16}$  in) x 72.6 mm ( $2\frac{7}{8}$  in) with rounded corners R 3 mm ( $\frac{1}{8}$  in)
2. Make the electrical connection without powering up the device
3. Fasten the device to the panel



### 12 VAC/DC models for wall mounting

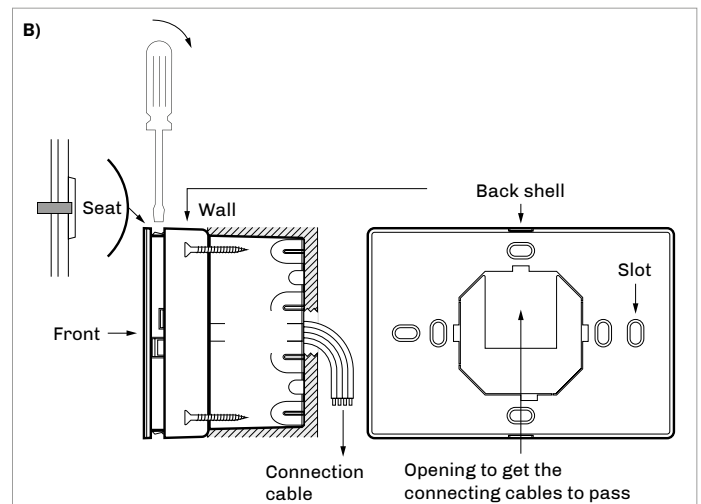
#### A) Wall mounting

1. Unhook the back shell from the front through a screwdriver in the proper seat
2. Lean the back shell against the wall in a position suitable to get the connecting cable to pass through the proper opening
3. Use the slots of the back shell as template to drill 4 holes having a diameter suitable to the bolt 5.0 mm ( $\frac{3}{16}$  in) diameter bolts are suggested
4. Insert the bolts in the holes drilled in the wall
5. Fasten the back shell at the wall with 4 screws  
Countersunk head screws are suggested
6. Make the electrical connection without powering up the device
7. Fasten the front of the device at the back shell



#### B) Flush mounting box

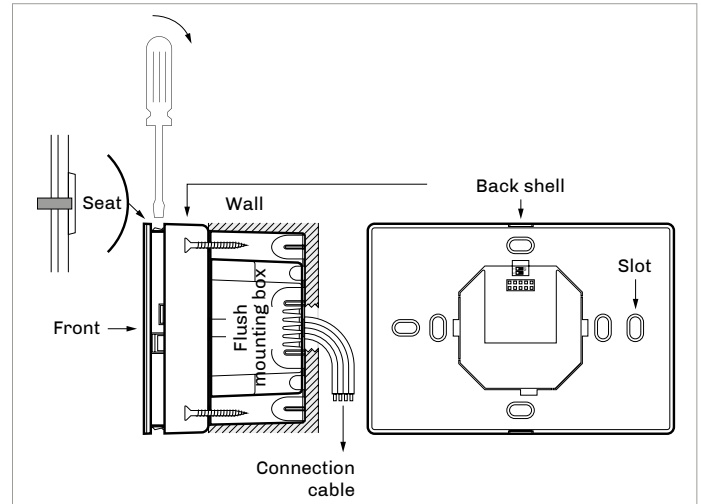
1. Unhook the back shell from the front through a screwdriver and the proper seat
2. Fasten the back shell at the box with 4 screws  
Countersunk head screws are suggested
3. Make the electrical connection without powering up the device
4. Fasten the front of the device at the back shell



### 115... 230 VAC models for wall mounting

Mounted onto in-wall electrical box with rear housing of back power module

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 indicated in the "Technical data" chapter
- 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 FOR ELECTRICAL CONNECTIONS

- 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 INTRABUS network by using a twisted pair

### 12 VAC/DC models for panel mounting

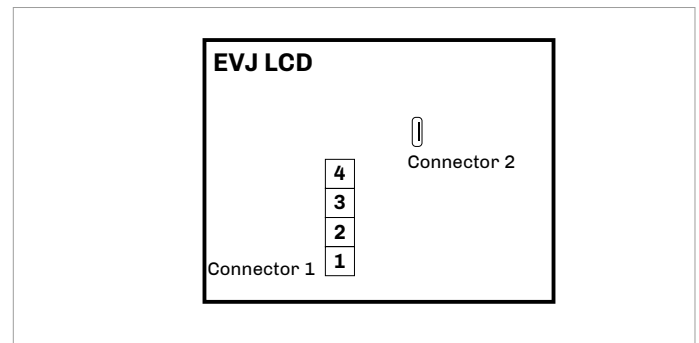
#### Connectors and parts

#### Connector 1

Number	Description
1	INTRABUS port reference (GND)
2	INTRABUS port data (IB)
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

#### Connector 2

Number	Description
	EVCO reserved



### WARNINGS FOR ELECTRICAL CONNECTIONS

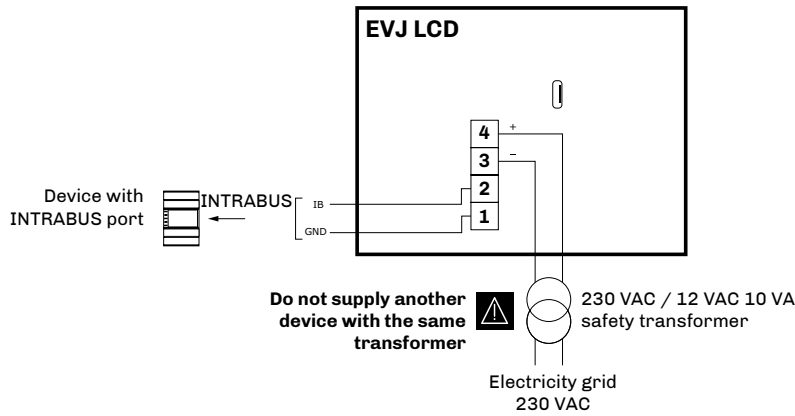
- If using an electrical or pneumatic screwdriver, adjust the tightening torque
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power
- Make sure that the supply voltage, electrical frequency 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

Electrical connection with independent power supply



**WARNINGS**

- Do not supply another device with the same transformer
- The maximum permitted length for connection cables of the INTRABUS port is 30 m (98.4 ft)



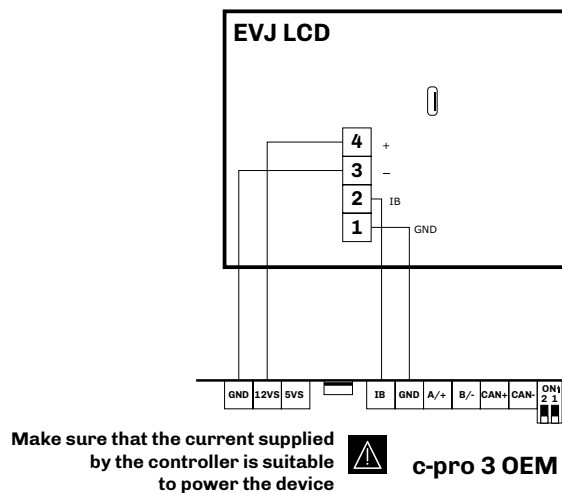
Electrical connection with device powered by a controller

Example: **c-pro 3 OEM**



**WARNINGS**

- Make sure that the current supplied by the controller is within the limits stated in the TECHNICAL SPECIFICATIONS section
- The maximum permitted length for connection cables of the INTRABUS port is 10 m (32.8 ft)



## 12 VAC/DC 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	Analog/digital input AI4 (NTC/DI)
6	Reference analog/digital input AI4 (GND)

#### Connector 2

Number	Description
	EVCO reserved

#### Micro-switch

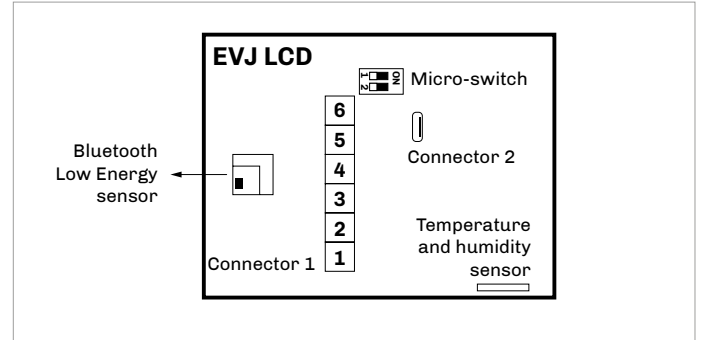
Number	Description
2	To terminate the RS-485 MODBUS network
1	EVCO reserved

#### Temperature (AI3) and humidity (AI5) sensor

Number	Description
	According to the model

#### Bluetooth Low Energy sensor

Number	Description
	According to the model

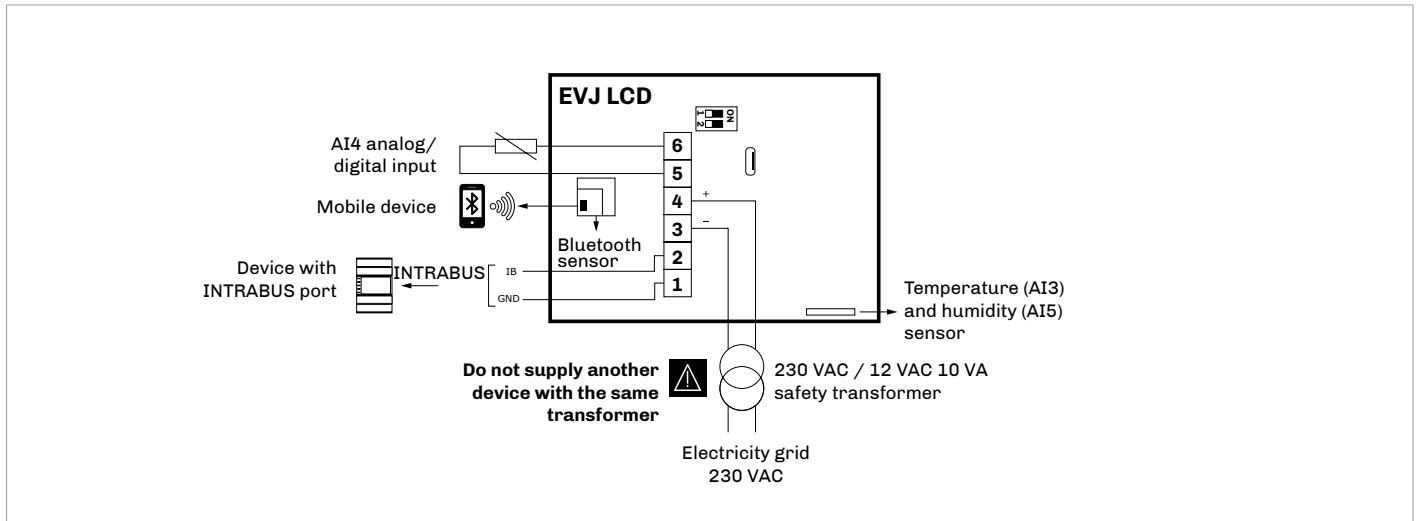


Electrical connection with independent power supply



**WARNINGS**

- Do not supply another device with the same transformer
- The maximum permitted length for connection cables of the INTRABUS port is 30 m (98.4 ft),
- 1.000 m (3.280 ft) in models with RS-485 with INTRABUS communication protocol



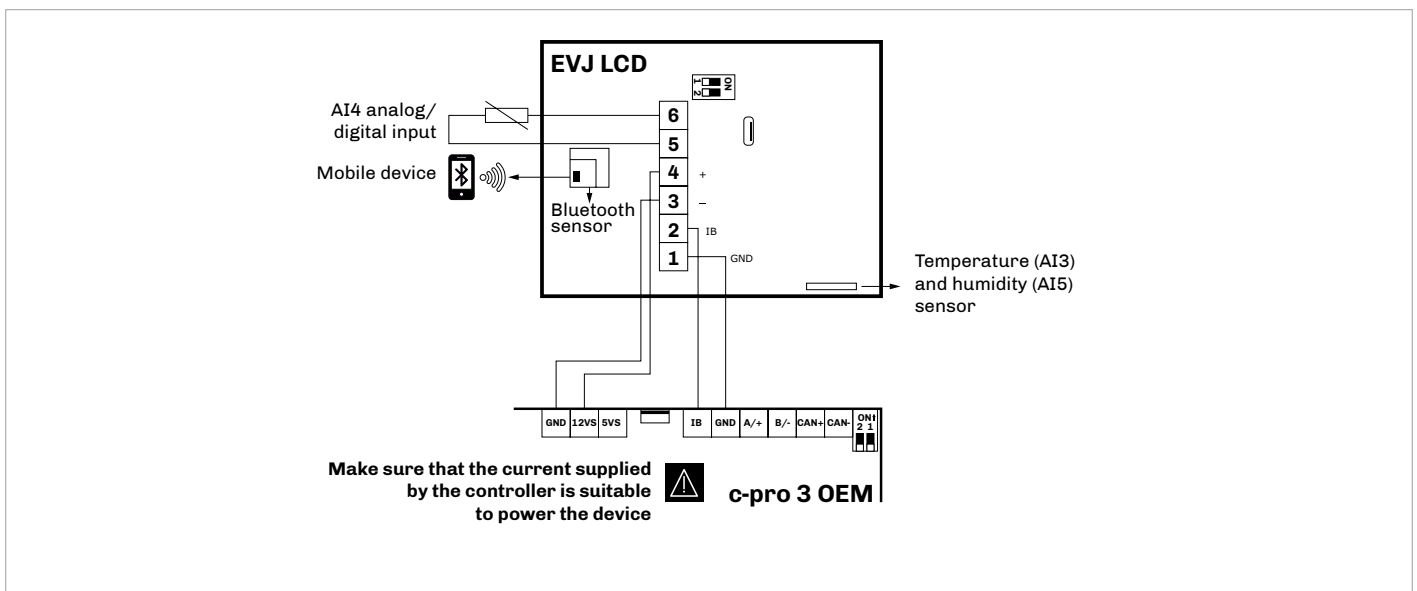
Electrical connection with device powered by a controller

Example: **c-pro 3 OEM**



**WARNINGS**

- Make sure that the current supplied by the controller is within the limits stated in the TECHNICAL SPECIFICATIONS section
- The maximum permitted length for connection cables of the INTRABUS port is 10 m (32.8 ft)

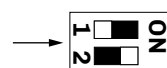


Termination of the RS-485 network

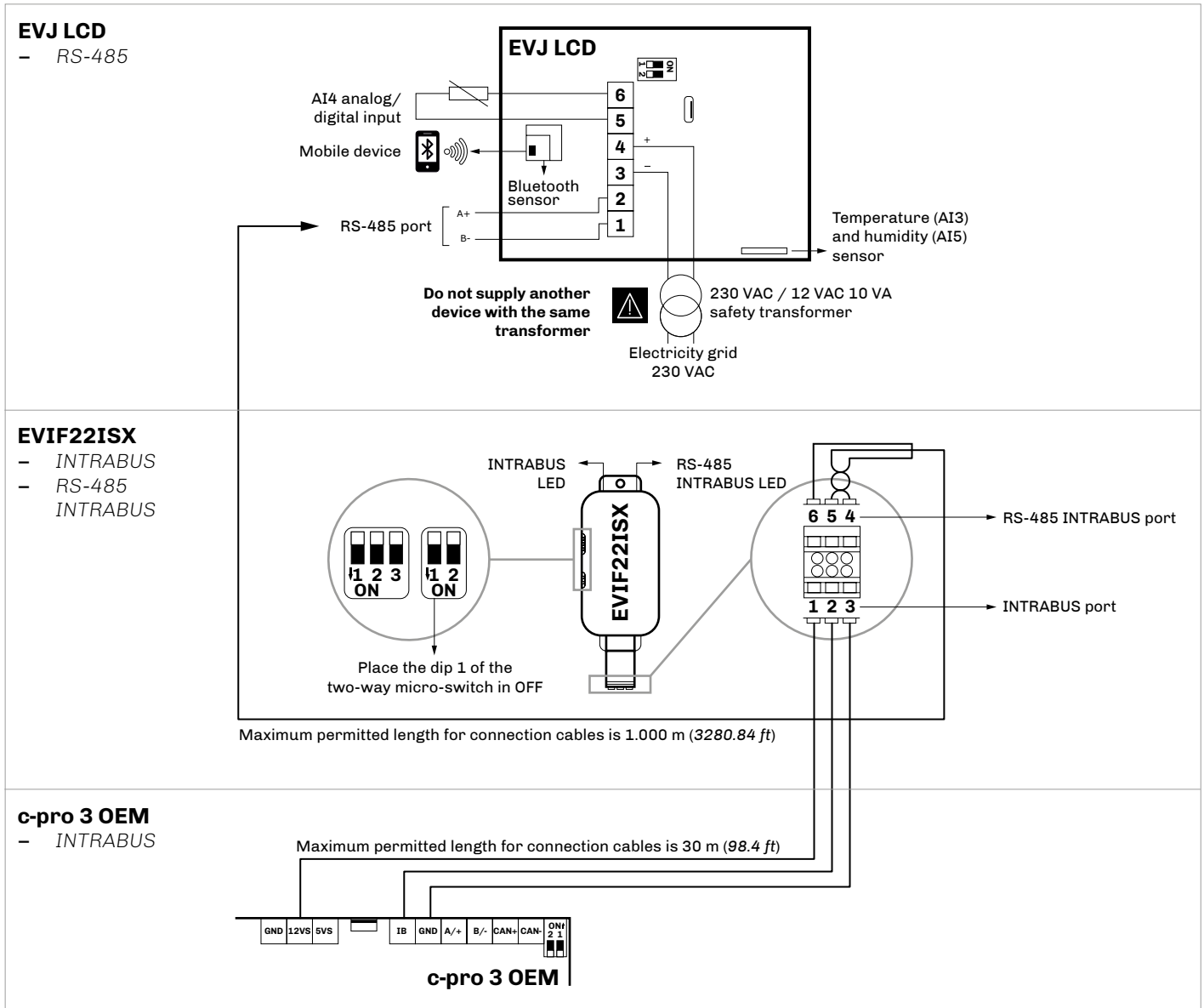
To terminate the RS-485 network:

- Place **micro-switch 2 in position ON**
- Let the **micro-switch 1 in position OFF (EVCO reserved)**

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

**115... 230 VAC models for wall mounting**

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**

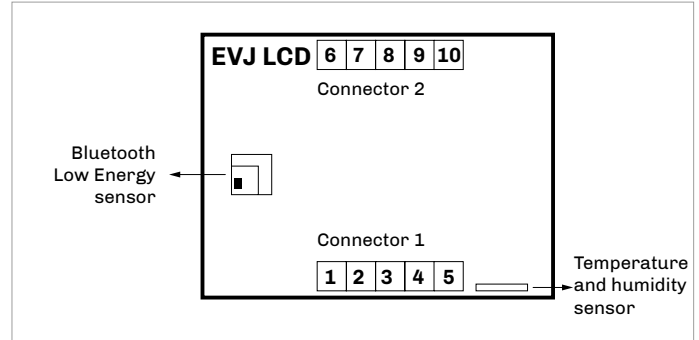
Number	Description
6	Analog/digital input AI2 (NTC/DI)
7	Analog/digital input AI1 (NTC/DI)
8	Reference analog/digital inputs AI1 and AI2 (GND)
9	INTRABUS port data (IB)
10	INTRABUS port reference (GND)

**Temperature (AI3) and humidity (AI5) sensor**

Number	Description
	According to the model

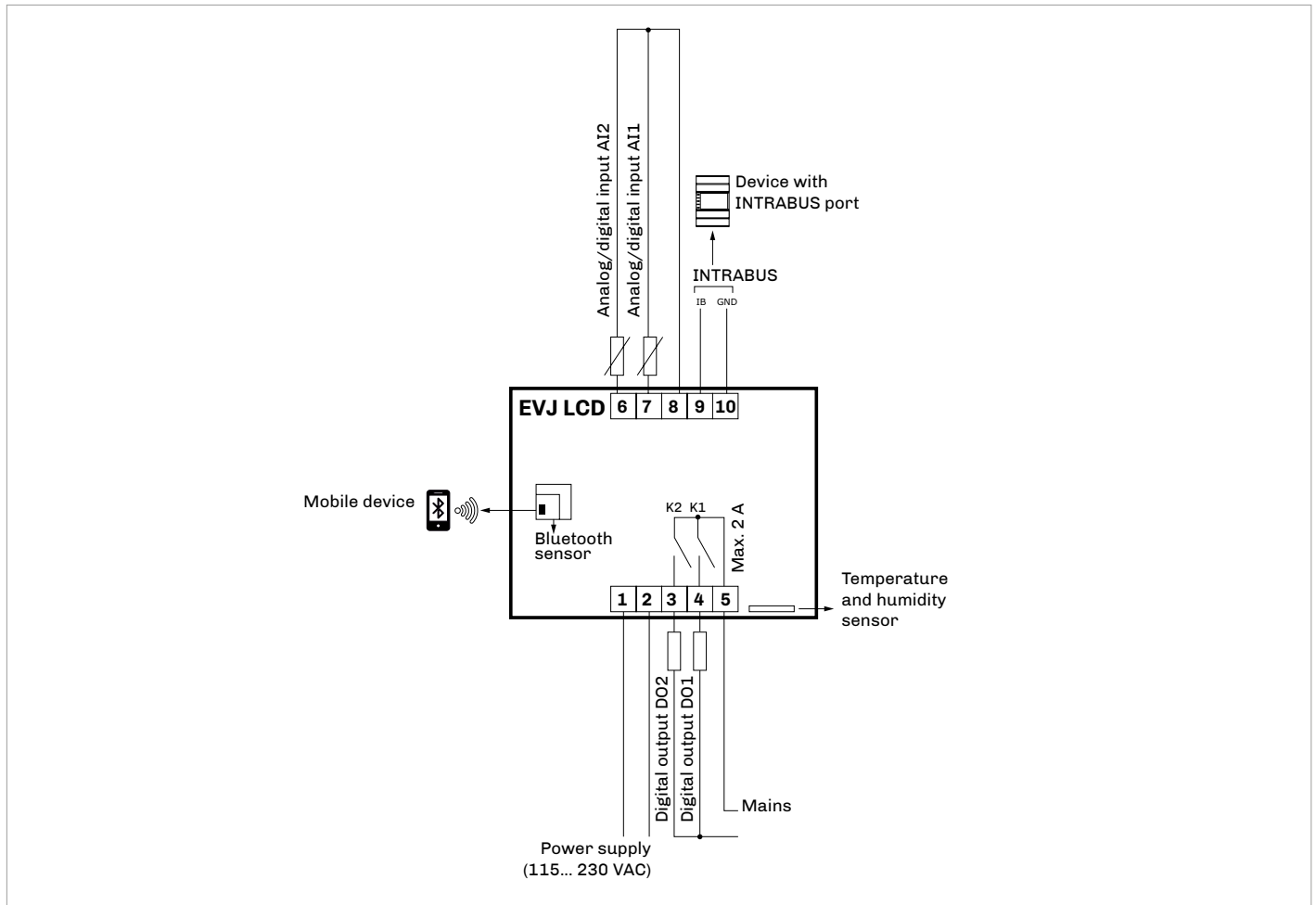
**Bluetooth Low Energy sensor**

Number	Description
	According to the model





Electrical connection with independent power supply



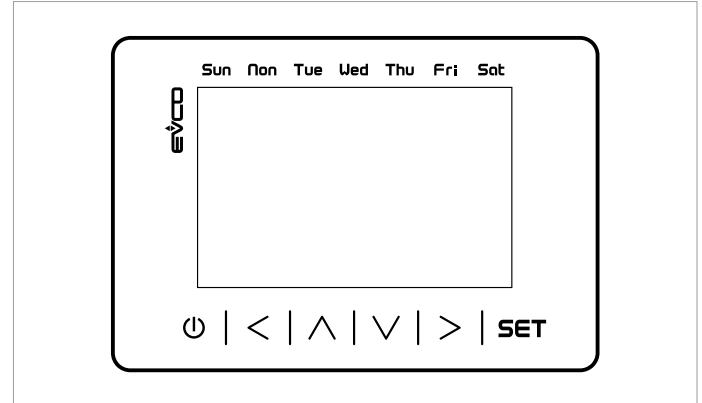
## User interface

### Key description

Key	Instructions
	ON/STAND-BY
	LEFT AND RIGHT
	UP AND DOWN
<b>SET</b>	SET

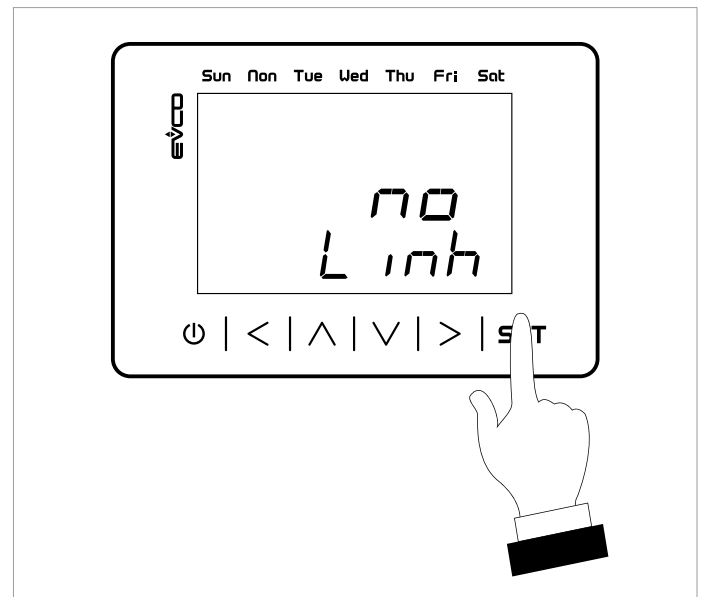
### Switching ON/OFF the device

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



### Accessing the procedure

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



### Accessing the menu

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

**Parameters settings**

*"InF" menu*

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

*"PAr" menu*

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

*"PAr" menu*

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

“nEt > Itb” menu

Key	Instructions
<b>SET</b>	Touch <b>SET</b> key for 7 seconds: the display will show “Mnu” and “Inf”
∇	Touch <b>DOWN</b> key twice: the display will show “Mnu” and “nEt”
<b>SET</b>	Touch <b>SET</b> key: the display will show “nEt” and “Itb”
<b>SET</b>	Touch <b>SET</b> key
∧ ∇	Touch <b>UP</b> or <b>DOWN</b> keys to see the parameters
⏻	Touch <b>ON/STAND-BY</b> 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
<b>SET</b>	Touch <b>SET</b> key for 7 seconds: the display will show “Mnu” and “Inf”
∇	Touch <b>DOWN</b> key twice: the display will show “Mnu” and “nEt”
<b>SET</b>	Touch <b>SET</b> key: the display will show “Mnu” and “Itb”
∇	Touch <b>DOWN</b> key: the display will show “Mnu” and “bLE”
<b>SET</b>	Touch <b>SET</b> key
∧ ∇	Touch <b>UP</b> or <b>DOWN</b> keys to see the parameters
<b>SET</b>	Touch <b>SET</b> key to access the value
∧ ∇	Touch <b>UP</b> or <b>DOWN</b> keys to set-up the value (available only for “Pty” parameter)
<b>SET</b>	Touch <b>SET</b> key to confirm the value
⏻	Touch <b>ON/STAND-BY</b> 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
<b>SET</b>	Touch <b>SET</b> key for 7 seconds: the display will show “Mnu” and “Inf”
∇	Touch <b>DOWN</b> key three times: the display will show “Mnu” and “diA”
<b>SET</b>	Touch <b>SET</b> key
∧ ∇	Touch <b>UP</b> or <b>DOWN</b> keys to see the parameters
⏻	Touch <b>ON/STAND-BY</b> 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
<b>SET</b>	Touch <b>SET</b> key for 7 seconds: the display will show “Mnu” and “Inf”
∇	Touch <b>DOWN</b> key for times: the display will show “Mnu” and “dEb”
<b>SET</b>	Touch <b>SET</b> key
∧ ∇	Touch <b>UP</b> or <b>DOWN</b> keys to see the parameters
⏻	Touch <b>ON/STAND-BY</b> key few times to return to the previous displays

“dEb > unL” submenu

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

“CnF” menu

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

“dEb” menu

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

“dEb > unL” submenu

N.	Param.	Def.	“dEb > unL” submenu	Min/max
<b>37</b>	dO1	-	D01 digital output status	On... OFF
<b>38</b>	dO2	-	D02 digital output status	On... OFF

“CnF” menu

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

## Technical data

Type	Description	
<b>Purpose of the control device</b>	Function controller	
<b>Construction of the control device</b>	Built-in electronic device	
<b>Container</b>	White and black, self-extinguishing	
<b>Category of heat and fire resistance</b>	D	
<b>Dimensions</b>	12 VAC/DC models for panel mounting	- 111.4 x 76.4 x 25.0 mm - (4 <sup>3</sup> / <sub>8</sub> x 3 x 1 in)
	12 VAC/DC models for wall mounting	- 111.4 x 76.4 x 18.5 mm (4 <sup>3</sup> / <sub>8</sub> x 3 x <sup>3</sup> / <sub>4</sub> in)
	115... 230 VAC models for wall mounting	- 111.4 x 76.4 x 51.5 mm (4 <sup>3</sup> / <sub>8</sub> x 3 x 2 in)
<b>Mounting methods for the control device</b>	According to the model: - Panel mounting - Wall mounting - In the most common flush mounting box	
<b>Degree of protection provided by the covering</b>	IP30 (IP65 in case of panel mounting)	
<b>Connection method</b>	12 VAC/DC models for panel mounting	Removable screw terminal blocks for wires up to 1 mm <sup>2</sup>
	12 VAC/DC or 115... 230 VAC models for wall mounting	Fixed screw terminal blocks for wires up to 1 mm <sup>2</sup>
<b>Maximum permitted length for connection cables</b>	Power supply: 10 m (32.8 ft)	
	Analogue/digital input: 10 m (32.8 ft)	
	Digital outputs: 10 m (32.8 ft)	
	INTRABUS port: - 10 m (32.8 ft) if the device is powered by a controller - 30 m (98.4 ft) with independent power supply	
	RS-485 MODBUS port: - 1.000 m (3,280 ft)	
<b>Operating temperature</b>	0 – 40 °C (32 – 104 °F)	
<b>Storage temperature</b>	-20 – 70 °C (-4 – 158 °F)	
<b>Operating humidity</b>	Relative humidity from 5 to 95% non condensing	
<b>Pollution status of the control device</b>	2	
<b>Compliance</b>	- RoHS 2011/65/CE	
	- WEEE 2012/19/EU	
	- REACH (EC) regulation no. 1907/2006	
	- EMC 2014/30/UE	
	- RED 2014/53/UE	
<b>Power supply</b>	12 VAC/DC models for panel and 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)
	115... 230 VAC models for wall mounting	115... 230 VAC (+10% -15%) 50/60 Hz (±3 Hz) max. 3 VA insulated
<b>Earthing methods for the control device</b>	None	
<b>Rated impulse-with stand voltage</b>	12 VAC/DC models for panel and wall mounting	330 V
	115... 230 VAC models for wall mounting	2.5 kV

Type	Description	
<b>Over-voltage category</b>	12 VAC/DC models for panel and wall mounting	I
	115... 230 VAC models for wall mounting	II
<b>Software class and structure</b>	A	
<b>Analogue/digital inputs</b>	12 VAC/DC models for panel mounting	None
	12 VAC/DC models for wall mounting	1 for NTC/DI probes
	115... 230 VAC for wall mounting	2 for NTC/DI probes
<b>NTC probes</b>	Measurement field	-40 – 110 °C (from -58 – 230 °F)
	Resolution	0.1 °C (1 °F)
<b>Digital outputs</b>	12 VAC/DC models for panel and wall mounting	None
	115... 230 VAC for wall mounting	2 with electromechanical relay (K1 and K2 relay)
<b>K1 relay</b>	SPST, 1 res. A at 250 VAC	
<b>K2 relay</b>	SPST, 1 res. A at 250 VAC	
<b>Type 1 or Type 2 Actions</b>	Type 1	
<b>Additional features of Type 1 or Type 2 actions</b>	C	
<b>Displays</b>	Two rows and function icons LCD display	
<b>Alarm buzzer</b>	Built-in	
<b>Incorporated sensors</b>	Temperature and humidity (according to the model)	
	Bluetooth Low Energy (according to the model)	
<b>Working range incorporated temperature humidity sensor</b>	0... 40 °C (32... 104 °F)	
<b>Working range incorporated humidity sensor</b>	10... 70% of relative humidity	
<b>Communications ports</b>	1 INTRABUS or RS-485 ports with INTRABUS communication protocol (according to the model)	

**SIMPLIFIED EU DECLARATION OF CONFORMITY**

EVCO S.p.A. declares that the type of radio equipment:

-EVJD900N2VWIV

-EVJD920N2VWIV

-EVJD902N9VPIV

-EVJD922N9VPIV

complies with directive 2014/53/EU and directive 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address: <https://www.evco.it/en/16283-evj-epj-lcd>



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