EVPS9B

000 × ÷ ÷ 000 V.OUT CND V.OUT GND PLEASE READ POWER CAREFULLY NC1 100 CONSIDER THE ENVIRONMENT

- ENGLISH
- power supply 115... 230 VAC analog input for product probe (Pt 1000)
- backup battery input (12 VDC max, 12 Ah sealed lead battery)
- auxiliary power supply output (9... 16 VDC 7 W)
- electromechanical relay (8 res. A @ 250 VAC)
- RS-485 MODBUS slave port

MEASUREMENTS AND INSTALLATION

Measurements in mm (inches). To be fitted on a DIN rail, in a control panel



2

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To install the device operate as shown in pictures 1 and 2.



To remove the device, first remove any screw-in removable terminal blocks mounted in the lower part, then operate as shown in pictures 3 and 4.







INSTALLATION PRECAUTIONS

Ensure that the working conditions are within the limits stated in the TECHNICAL SPECIFICATIONS section

2	COLLEGAMENTO ELETTRICO
	 N.B. Use 12 VDC max. 12 Ah sealed lead battery 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, if necessary, connect to a RS-485 MODBUS network by using a twisted pair.
2.1 Descrip	Connectors otion of connectors.

Backup module

DESCRIPTION N.

- GND reference (GND)
- product probe analog input (for Pt 1000 probes) IN

N. DESCRIPTION

- A/+ signal + RS-485 MODBUS slave port
- signal RS-485 MODBUS slave port B/-GND reference (GND)

N. DESCRIPTION VBATT. backup battery input (12 VDC max. 12 Ah sealed lead battery) GND reference (GND) V.OUT auxiliary power supply output (9... 16 VDC 7 W) GND reference (GND)

N. DESCRIPTION

- C01 common contact electromechanical relay
- NO1 normally open contact electromechanical relay (8 res. A @ 250 VAC)
- normally closed contact electromechanical relay NC1

N. DESCRIPTION

- device power supply (115... 230 VAC) V~
- V ~ device power supply (115... 230 VAC)

2.2 Electrical connection

Example of connection to the setup software system Parameters Manager Make sure to have the serial interface EVIF20SUXI (the USB cable is included with the inter-

face). For further information on the setup software system Parameters Manager, please consult the

relevant user manual.



For the connection to a controller, please consult the relevant user manual.

Meaning o	of LEDs			
LED	ON	OFF	SHORT LAMP	LONG LAMP
POWER	device properly powered	-	-	device powered by the backup battery
BATT.	backyp battery charged	-	backup battery not present or in fail- ure	backup battery ir charge
RS485	-	RS-485 communi- cation	no RS-485 com- munication	-
OUT	relay active	relay not active	-	-



MODBUS parity is even

DATI TECNICI 4

Purpose of the	control device:		Function contro	oller.	
Construction of the control device:			Built-in electronic device.		
Container:			Grev, self-extinguishing.		
Category of he	at and fire resis	tance:	D.	0 0	
Measurements	:		4 DIN module	es: 71.0 x 110.0 x 60.0 mm	
			(2 13/16 x 4 5	/16 x 2 3/8 in).	
Mounting meth	ods for the cont	rol device:	To be fitted on	a DIN rail, in a control panel.	
Degree of prot	tection provided	I by the cover-	IP40.		
ing:					
Connection me	thod:		Removable screw terminal blocks for wires up		
			to 2.5 mm ² .		
Maximum pern	nitted length for	connection cabl	es:		
Power supply:	10 m (32.8 ft)		Analogue input	s: 10 m (32.8 ft)	
Auxiliary powe	r supply: 10 m ((32.8 ft)	Backup battery	r: 10 m (32.8 ft)	
Digital outputs	: 100 m (328 ft))	RS-485 MODBI	JS port: 1,000 m (3,280 ft).	
Operating tem	perature:		From 0 to 55 °	C (from 32 to 131 °F).	
Storage tempe	rature:		From -20 to 70) °C (from -4 to 158 °F).	
Operating hum	nidity:		Relative humidity without condensate from 5		
			to 95%.		
Pollution status	s of the control of	device:	2.		
Compliance:			Compliance:		
RoHS 2011/65	/EC	WEEE 2012/19	9/EU	RoHS 2011/65/EC	
EMC 2014/30/	EU		LVD 2014/35/UE.		
Power supply:			115 230 VAC (+10 % -15 %), 50/60 Hz		
			(±3 Hz), max. 24 VA.		
Earthing metho	ods for the contr	ol device:	None.		
Rated impulse-	withstand volta	ge:	2.5 KV.		
Over-voltage c	ategory:		11.		
Software class	and structure:		Α.		
Analogue input	ts:		1 for Pt 1000 probes (product probe).		
Pt 1000 pro-	- Sensor type:		1 KΩ @ 0 °C, 32 °F		
bes:	Measurement field:		from -100 to 400 °C (from -148 to 752 °F)		
Resolution:		0.1 °C (1 °F).			
Other inputs:			1 for backup battery (12 VDC max. 12 Ah		
			sealed lead battery).		
Auxiliary powe	Auxiliary power supply:			9 16 VDC max. 5 W.	
Digital outputs:			1 electromechanical relay.		
Type 1 or Type 2 Actions:			Type 1.		
Additional features of Type 1 or Type 2 ac-			C.		
tions:					
Communication	Communications ports:			BUS slave port.	
				·	



bo not install the device close to heat sources, equipment with a strong magnetic neid,
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.

2.3 Fitting the termination resistor of RS-485 network The termination resistor of the RS-485 network connected to the RS-485 MODBUS slave port is always fitted.

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

3 CONFIGURATION PARAMETERS

		DEF.	SETPOINT	MIN MAX.	
B -	1	SP	-50.0	setpoint	-99.0 99.9 °C/°F
\circ	N.	PAR.	DEF.	ANALOGUE INPUTS	MIN MAX.
	2	CA1	0.0	product probe offset	-25.0 25.0 °C/°F
\sim	3	PO	0	probe type	0 = Pt 1000 1 = reserved
	4	P2	0	temperature unit of measure-	$0 = °C \qquad 1 = °F$
				ment	
*	N.	PAR.	DEF.	REGULATION	MIN MAX.
	5	r0	12.0	voltage for backyp battery	0.0 15.0 V
				charged	
	6	r1	50	release charge current	0 50 mA
	7	r2	300	maximum charge current	0 300 mA
	8	r3	14.3	maximum voltage for backyp	0.0 15.0 V
				battery charged	
	9	r4	5.0	setpoint differential	0.0 12.0 °C/°F

N.B. X

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

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