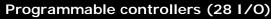
EVCO S.p.A. | c-pro 3 giga | Instruction sheet ver. 1.0 | Code 104CP3GE103 | Page 1 of 2 | PT 07/19

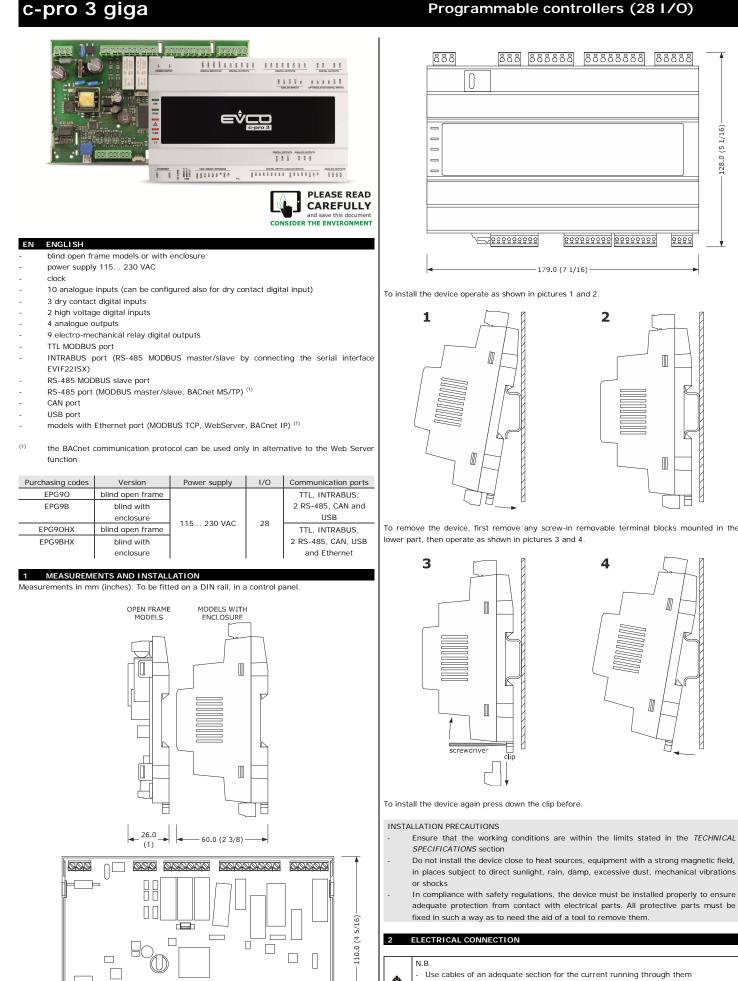


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CO2 K2 digital output common contact NO3 K3 digital output normally open contact (3 A res. @ 250 VAC) CO3 K3 digital output common contact N. DESCRIPTION NO4 K4 digital output normally open contact (3 A res. @ 250 VAC) CO4 K4 digital output common contact NO5 K5 digital output normally open contact (2 A res. @ 250 VAC) CO5 K5 digital output common contact NO6 K6 digital output normally open contact (3 A res. @ 250 VAC) CO6 K6 digital output common contact NO7 K7 digital output normally open contact (8 A res. @ 250 VAC) CO7 K7 digital output common contact N. DESCRIPTION NO8 K8 digital output normally open contact (2 A res. @ 250 VAC) CO8 K8 digital output common contact NC9 K9 digital output normally closed contact NO9 K9 digital output normally open contact (3 A res. @ 250 VAC) CO9 K9 digital output common contact N. DESCRIPTION CAN+ signal + CAN port CAN- signal - CAN port A1/+ signal + RS-485 MODBUS slave port B1/- signal - RS-485 MODBUS slave port A2/+ signal + RS-485 port (MODBUS master/slave, BACnet MS/TP) B2/- signal - RS-485 port (MODBUS master/slave, BACnet MS/TP) IB data INTRABUS port GND reference (GND) 12V power supply remote user interfaces (13 VDC) The actual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, which doesn't require the managing of Scheduler and Calendar objects, instead required for the

N. DESCRIPTION

N. DESCRIPTION

N. DESCRIPTION

V~

128.0 (5 1/16)

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

COM high voltage digital inputs common contact

NO1 K1 digital output normally open contact (3 A res. @ 250 VAC)

NO2 K2 digital output normally open contact (3 A res. @ 250 VAC)

DIHV1 high voltage digital input; DI1

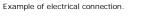
DIHV2 high voltage digital input; DI2

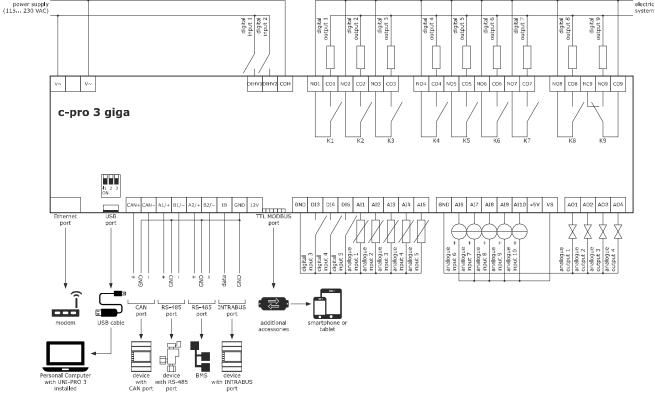
CO1 K1 digital output common contact

B-AAC profile. N. DESCRIPTION GND reference (GND) DI3 digital input 3 (dry contact and for pulse trains up to 2 KHz); DI3 DI4 digital input 4 (dry contact and for pulse trains up to 2 KHz); DI4 DI5 digital input 5 (dry contact and for pulse trains up to 2 KHz); DI5 AI1 analogue input 1 (for PTC, NTC or Pt 1000 probes); Al1 can be configured also for dry contact digital input AI2 analogue input 2 (for PTC, NTC or Pt 1000 probes); AI2 can be configured also for dry contact digital input analogue input 3 (for PTC, NTC or Pt 1000 probes); AI3 AI3 can be configured also for dry contact digital input analogue input 4 (for PTC, NTC or Pt 1000 probes); AI4 AI4 can be configured also for dry contact digital input analogue input 5 (for PTC, NTC or Pt 1000 probes): AI5 AI5 can be configured also for dry contact digital input N. DESCRIPTION GND reference (GND) AI6 analogue input 6 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20

insure that the working conditions are within the limits stated in the <i>lechnical</i>			
SPECIFICATIONS section Do not install the device close to heat sources, equipment with a strong magnetic field, n places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations		mA transducers); AI6	
		can be configured also for dry contact digital input	
		analogue input 7 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20	
or shocks		mA transducers); AI7	
n compliance with safety regulations, the device must be installed properly to ensure		can be configured also for dry contact digital input	
adequate protection from contact with electrical parts. All protective parts must be	AI8	analogue input 8 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20	
ixed in such a way as to need the aid of a tool to remove them.		mA transducers); AI8	
		can be configured also for dry contact digital input	
LECTRICAL CONNECTION		analogue input 9 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20	
		mA transducers); AI9	
N.B.		can be configured also for dry contact digital input	
- Use cables of an adequate section for the current running through them		analogue input 10 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20	
- To reduce any electromagnetic interference connect the power cables as far away		mA transducers); AI10	
as possible from the signal cables and, if necessary, connect to a RS-485 MODBUS		can be configured also for dry contact digital input	
network and/or a CAN network by using a twisted pair.	+5V	power supply 0-5 V ratiometric transducers (5 VDC)	
	VS	power supply transducers (13 VDC)	
Connectors			
ion of connectors.		DESCRIPTION	
	AO1	analogue output 1 (for 0-10 V or PWM)	
	AO2	analogue output 2 (for 0-10 V or PWM)	
	AO3	analogue output 3 (for 0-10 V or PWM)	
	AO4	analogue output 4 (for 0-10 V or PWM)	
	1		
	2.3	Fitting the termination resistor of RS-485 networks and CAN network	
	To fit t	he termination resistor of the RS-485 network connected to the RS-485 MODBUS slave	
electric	port, pl	ace micro-switch MBS1LT in position ON.	

2.2 Electrical connection





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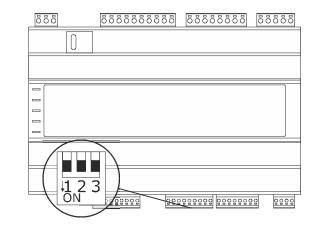
2.1 Connectors Description of connectors.

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- 179.0 (7 1/16) -

To fit the CAN network termination resistor, place micro-switch CANLT in position ON

To fit the termination resistor of the RS-485 network connected to the RS-485 port (MODBUS



EVCO S.p.A. | c-pro 3 giga | Instruction sheet ver. 1.0 | Code 104CP3GE103 | Page 2 of 2 | PT 07/19

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 TECHNI	CAL SPECIFIC	ATIONS			
	control device:		Function controller.		
Construction of the control device: Container:			Built-in electronic device. Grey, self-extinguishing.		
Category of heat and fire resistance:		D.			
Measurements 10 DIN modul	: es: 179.0 x 110	0.0 x 26.0 mm	10 DIN module	es: 179.0 x 128.0 x 60.0 mm	
$(7 \ 1/16 \ x \ 4 \ 5/16 \ x \ 1 \ in)$ the open frame		(7 1/16 x 5 1/16 x 2 3/8 in) the models with			
models Mounting methods for the control device:		enclosure. To be fitted on a DIN rail, in a control panel.			
Degree of protection provided by the covering: IP00 the open frame models		IP40 the front of the models with enclosure.			
Connection me			The total of the models with enclosure.		
screw terminal blocks for wires up to 1.5 $\rm mm^2$ and 2.5 $\rm mm^2$ the open frame models		removable screw terminal blocks for wires up to 1.5 mm ² and 2.5 mm ² the models with enclosure			
Pico-Blade connector		Micro-USB connector			
RJ45 F telephone connector (according to the n Maximum permitted length for connection cable					
Power supply: 10 m (32.8 ft)		Analogue input	s: 10 m (32.8 ft)		
Auxiliary power supply and 0-5 V ratiometric transducer power supply: 10 m (32.8 ft)		Digital inputs: 10 m (32.8 ft)			
0-10 V analogue outputs: 10 m (32.8 ft)		PWM analogue outputs: 1 m (3.28 ft) INTRABUS port: 10 m (32.8 ft)			
	Digital outputs: 100 m (328 ft) RS-485 MODBUS port: 1,000 m (3,280 ft)		USB port: 1 m (3.28 ft).		
		0 ft), baud rate: 20,000 baud t), baud rate: 50,000 baud			
250 m (820 ft), baud ra					
50 m (164 ft),			baud rate: 500,000 baud. From -10 to 55 °C (from 14 to 131 °F).		
Operating temperature: Storage temperature:		From -10 to 55 °C (from 14 to 131 °F). From -20 to 70 °C (from -4 to 158 °F).			
Operating humidity:		Relative humidity without condensate from 5 to 95%.			
	s of the control o	device:	2.		
Compliance: RoHS 2011/65	/EC	WEEE 2012/19	P/EU	REACH (EC) Regulation no.	
			1	1907/2006	
EMC 2014/30/ Power supply:	EU		LVD 2014/35/UE. 115 230 VAC (+10% -15%), 50/60 Hz		
			(±3 Hz), max. 16 VA.		
	ods for the contr withstand volta		None.		
Over-voltage c	ategory:		2.5 KV. II.		
Software class and structure: Clock:		A. With secondary lithium battery.			
Clock drift:			≤ 30s/month a	With secondary lithium battery. ≤ 30s/month at 25°C (77 °F).	
Clock battery power supply:	autonomy in th	e absence of a	> 6 months at 25 °C (77 °F).		
Clock battery of	harging time:			ery is charged by the power	
Analogue input	S:		supply of the device). 5 for PTC, NTC or Pt 1000 probes (can be		
0 1			configured also for dry contact digital input)		
			5 for PTC, NTC or Pt 1000 probes, 0-5 V, 0- 10 V, 0-20 mA or 4-20 mA transducers (can		
			be configured	also for dry contact digital in-	
PTC probes:	Sensor type:		put). KTY 81-121 (9	90 Ω @ 25 °C, 77 °F)	
	Measurement f	ïeld:	from -50 to 150 °C (from -58 to 302 °F)		
NTC probes:	Resolution: bbes: Sensor type:		0.1 °C (1 °F). β3435 (10 KΩ @ 25 °C, 77 °F)		
·	Measurement field:		from -50 to 120 °C (from -58 to 248 °F)		
Pt 1000 Sensor type:		0.1 °C (1 °F). 1 KΩ @ 0 °C, 32 °F			
probes:	robes: Measurement field:		from -100 to 400 °C (from -148 to 752 °F)		
0-5 V trans-	Resolution: Input resistance	æ:	1 °C (1 °F). ≥ 10 KΩ	<u>°C (1 °F).</u> ≥ 10 KΩ	
ducers:	Resolution:		0.01 V.		
0-10 V trans- ducers:	Input resistance Resolution:	e:	≥ 10 KΩ 0.01 V.		
0/4-20 mA	Input resistance	e:	≤ 200 Ω		
transducers: Power supply r	Resolution: emote user inte	rfaces:	0.01 mA. 13 VDC, +20 9	6 -10%, 150 mA max.	
Power supply remote user interfaces: Power supply transducers:		13 VDC, +20 %	13 VDC, +20 % -10%, 150 mA max. 13 VDC, +20 % -10%, 100 mA max.		
Power supply C Digital inputs:	-5 V ratiometric	transducers:	5 VDC, ±10 % 3 dry contact a	, 20 mA max. nd for pulse trains up to 2 KHz	
			2 high voltage.		
Dry contact:		Contact type: Power supply:		3.3 VDC, 1 mA	
High voltage co		Power supply:		115 230 VAC.	
Analogue outp 0-10 V sig-		licable imped-	4 for 0-10 V or 1 KΩ	PWM signal	
nal:	ance:	,			
PWM signal:	Resolution: Power supply:		0.01 V. 0 10 VDC, 10 mA max.		
0	Frequency:	Frequency:		10 Hz 2 KHz	
Duty: Digital outputs:		0 100%. 2 with SPST electro-mechanical relay, 2 A			
		res. @ 250 VAC			
			5 with SPST electro-mechanical relay, 3 A res. @ 250 VAC		
		1 with SPDT electro-mechanical relay, 3 A			
		res. @ 250 VAC 1 with SPST electro-mechanical relay, 8 A			
		res. @ 250 VAC.			
- reinforced in	sulation betwee		and relay output	s	
- reinforced insulation between "groups" of relay outputs					
 basic insulation between relay outputs belonging to the same group reinforced insulation between live parts and SELV circuits 					
 reinforced insulation between "group 1" of relay outputs (K1 K3) and high voltage digital inputs (DIHV1 and DIHV2) 					
- basic insulation between live parts of opposite polarity				neutral).	
Type 1 or Type 2 Actions: Additional features of Type 1 or Type 2 ac-			Type 1. C.		
Additional features of Type 1 or Type 2 ac- tions:					
Communication			1 INTRABUS	port (RS-485 MODBUS mas-	
ter/slave by connecting the serial inter-					
1 RS-485 MODBUS slave port			EVIF22ISX) 1 RS-485 port (MODBUS master/slave,		
			BACnet MS/TP)		
1 CAN port according to th	e model, Ethern	et port (MODBU	1 USB port IS TCP, WebServ	er, BACnet IP).	
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N.B. \mathbf{X}

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

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