

GB ENGLIS IMPORTANT

Read this document carefully before installing and using the device and follow all the additional information; keep this 3.3 document close to the device for future consultations.

For further information consult the hardware manual.

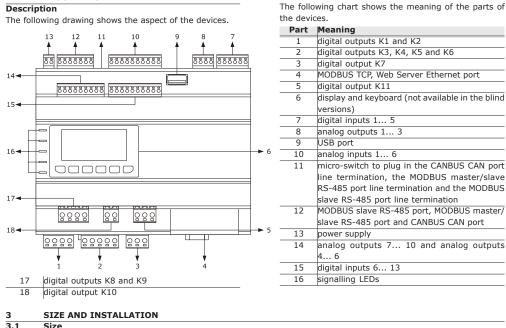
The device must be disposed according to the local legislation about the collection for electrical and electronic X equipment.

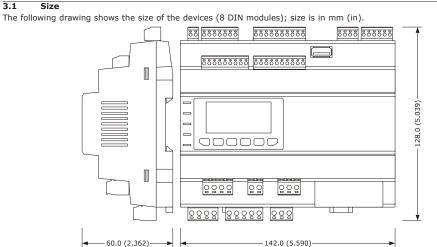
INTRODUCTION 1.1 Introduction

c-pro 3 NODE kilo+ is a range of programmable controllers for applications in refrigeration and air conditioning sectors. The controllers have a considerable number of inputs and outputs; they allow to realize a flexible, modular and expandable control devices network. The variety of available communication ports (RS-485, CAN, USB and Ethernet) and supported communication protocols make easier the integration of the devices in systems. The application software can be realized through the UNI-PRO 3 development environment for programmable controllers. For information on the use of the BACnet communication protocol please consult the PICS.

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 B-AAC profile.

DESCRIPTION



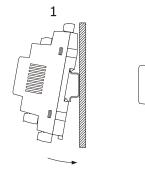


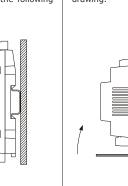
Installation 3.2

Installation is on DIN rail 35.0 x 7.5 mm (1.377 x 0.295 in) or 35.0 x 15.0 mm (1.377 x 0.590 in), into a switchboard.

To install the devices operate as shown in the following drawing

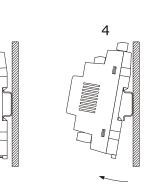
2





To remove the devices remove possible extractable screw terminal blocks plugged at the bottom first, then operate on the DIN rail clips with a screwdriver as shown in the following drawing

3



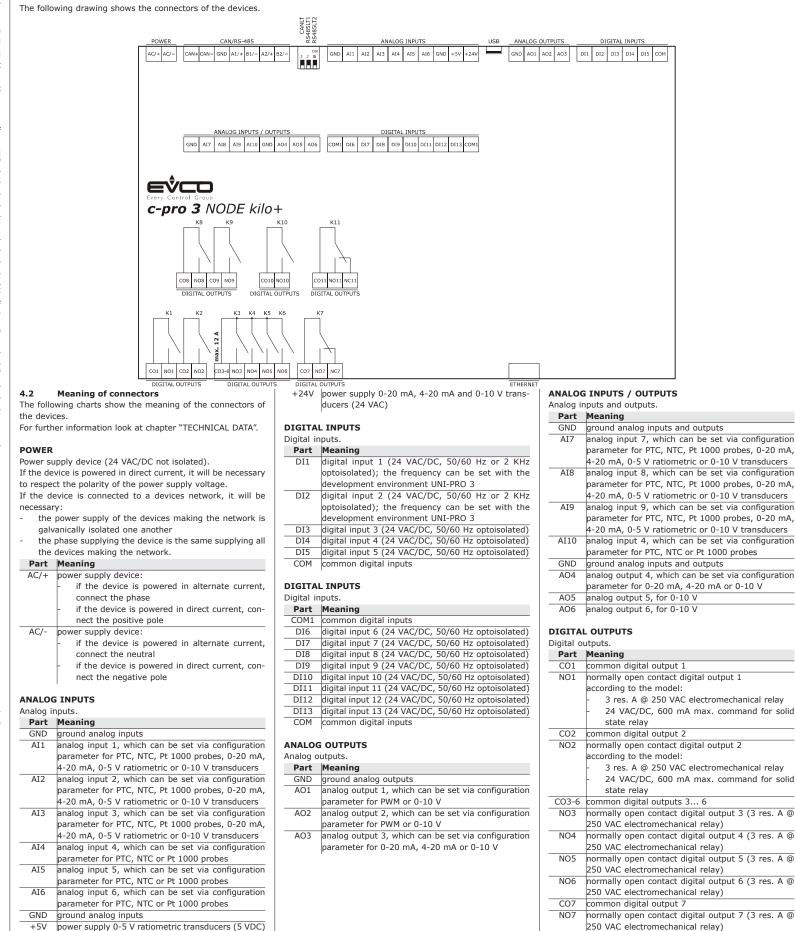
To install the devices again press the DIN rail clips to the end first.

Additional information for the installation make sure the working conditions of the device (operating temperature, operating humidity, etc.) are in the limits indicated; look at chapter "TECHNICAL DATA"

do not install the device close to heating sources (heaters, hot air ducts, etc.), devices having big magnetos

(big speakers, etc.), locations subject to direct sunlight, rain, humidity, dust, mechanical vibrations or bumps

according to the safety legislation, the protection against possible contacts with the electrical parts must be ensured by a correct installation of the device; all the parts which ensure the protection must be fixed so that you can not remove them if not by using a tool.



ELECTRICAL CONNECTION 4.1 Connectors

	NC7	normally closed contact digital output 7					
	CO8	common digital output 8					
	NO8	normally open contact digital output 8					
		according to the model:					
		- 3 res. A @ 250 VAC electromechanical relay					
		- 24 VAC/DC, 600 mA max. command for solid					
		state relay					
	CO9	common digital output 9					
	NO9	normally open contact digital output 9					
	according to the model:						
		- 3 res. A @ 250 VAC electromechanical relay					
		- 24 VAC/DC, 600 mA max. command for solid					
		state relay					
	CO10	common digital outputs 10					
	NO10	normally open contact digital output 10 (3 res. A					
		@ 250 VAC electromechanical relay)					
	CO11	common digital output 11					
	NO11	normally open contact digital output 11 (3 res. A					
		@ 250 VAC electromechanical relay)					
	NC11	normally closed contact digital output 11					

CAN/RS-485

MODBUS slave RS-485 port, MODBUS master/slave RS-485 port and CAN CANBUS port.

The communication protocol of the MODBUS master/slave RS-485 port can be set with the development environment UNI-PRO 3.

eaning

Part	Meaning				
CAN+	positive pole CANBUS CAN port				
CAN-	negative pole CANBUS CAN port				
GND	ground MODBUS slave RS-485 port, MODBUS				
	master/slave RS-485 port and CAN CANBUS port				
A1/+	positive pole MODBUS master/slave RS-485 port				
B1/-	negative pole MODBUS master/slave RS-485 port				
A2/+	positive pole MODBUS slave RS-485 port				
B2/-	negative pole MODBUS slave RS-485 port				

USB

USB port.

ETHERNET

MODBUS TCP, Web Server Ethernet port.

4.2 Plugging in the CANBUS CAN port line termination

To plug in the CANBUS CAN port line termination, position micro-switch 3 on position ON.



Plugging in the MODBUS master/slave RS-485 port line termination

To plug in the MODBUS master/slave RS-485 port line termination, position micro-switch 2 on position ON.



Plugging in the MODBUS slave RS-485 port line termination

To plug in the MODBUS slave RS-485 port line termination, position micro-switch 1 on position ON.



Polarizing the MODBUS master/slave RS-485 4.5 port

The polarization of the MODBUS master/slave RS-485 port can be set via configuration parameter.

4.6 Polarizing the MODBUS slave RS-485 port

The devices are not able to polarize the MODBUS slave RS-485 port: the polarization must be done by another device

- 4.7 Additional information for electrical connect tion
- do not operate on the terminal blocks of the device using electrical or pneumatic screwers
- if the device has been moved from a cold location to a warm one, the humidity could condense on the inside; wait about an hour before supplying it
- make sure the power supply voltage, the electrical frequency and the electrical power of the device correspond to those of the local power supply; look at chapter "TECHNICAL DATA"
- disconnect the power supply of the device before servicina it

parameter for PTC, NTC, Pt 1000 probes, 0-20 mA 4-20 mA, 0-5 V ratiometric or 0-10 V transducers analog input 8, which can be set via configuration parameter for PTC, NTC, Pt 1000 probes, 0-20 mA, 4-20 mA, 0-5 V ratiometric or 0-10 V transducers analog input 9, which can be set via configuration parameter for PTC, NTC, Pt 1000 probes, 0-20 mA, I-20 mA, 0-5 V ratiometric or 0-10 V transducers

24 VAC/DC. 600 mA max. command for solid

3 res. A @ 250 VAC electromechanical relay 24 VAC/DC, 600 mA max, command for solid

normally open contact digital output 4 (3 res. A @

connect the device to a RS-485 devices network using	- digital inputs: 100 m (328 ft)	NTC analog inputs (10 Kg		0-10 V analog outputs	1 // 0
a twisted pair connect the device to a CAN devices network using a	 PWM analog outputs: 1 m (3.280 ft) 0-20 mA, 4-20 mA and 0-10 V analog outputs: 100 m 	Kind of sensor: Working range:	ß3435. from -40 to 120 °C (from -58 to		1 KΩ. ±3 % of the full scale.
twisted pair	(328 ft)	Horking runge.	248 °F).	,	+2 %, -5 % of the full scale
position the power cables as far away as possible from	 digital outputs (electromechanical relays): 100 m (328 ft) 	Accuracy:	 ±0.5 % of the full scale from -40 to 100 °C 		for loads having impedance
the signal cables do not use the device as safety device	- digital outputs (command for solid state relays):		- ±1 °C from -50 to -40 °C		from 1 to 5 KΩ - ±2 % of the full scale for
for the repairs and for information about the device	100 m (328 ft)		and from 100 to 120 °C.		loads having impedance
please contact the EVCO sales network.	 MODBUS slave RS-485 port and MODBUS master/slave RS-485 port: 1,000 m (3,280 ft); also look at MODBUS 	Resolution: Conversion time:	0.1 °C. 100 ms.	Digital outputs: 11 outputs	> 5 KΩ.
5 SIGNALINGS	specifications and implementation guides manual avail-	Protection:	none.	- according to the model:	
5.1 Signalings	able on http://www.modbus.org/specs.php				50 VAC SPST electromechanical
LED Meaning ON LED power supply	 CANBUS CAN port: 1,000 m (3,280 ft) with baud rate 20,000 baud 	NTC analog inputs (10 KG Kind of sensor:	<u>Ω @ 25 °C, 77 °F)</u> NTC type 2.	relays (K1 K6 and - four 24 VAC/DC, 60	d K8 K10) 00 mA max. commands for solid
if it is lit, the device will be powered	- 500 m (1,640 ft) with baud rate 50,000 baud	Working range:	from -40 to 86 °C (from -40 to		, K8 and K9) and five 3 res. A @
if it is out, the device will not be powered	- 250 m (820 ft) with baud rate 125,000 baud		186 °F).		ctromechanical relays (K3 K6
RUN LED run if it is lit, the application software will be com-	 50 m (164 ft) with baud rate 500,000 baud according to the factory setting the device automatically 	Accuracy: Resolution:	±1 °C. 0.1 °C.	and K10) - two 3 res. A @ 250 VA	C SPDT electromechanical rela
piled and running in <i>release</i> modality	detects the baud rate of the other elements making the	Conversion time:	100 ms.	(K7 and K11).	
if it flashes slowly, the application software will	network, on condition that it is one of those listed be-	Protection:			insulation among each connect
be compiled and running in <i>debug</i> modality if it flashes quickly, the application software will	fore; on afterwards set manually the baud rate to the same value of that of the other elements	NTC analog inputs (10 KG Kind of sensor:	<u>0 @ 25 °C, 77 °F)</u> NTC type 3.	vice.	d the remaining parts of the de
be compiled, running in <i>debug</i> modality and	- USB port: 1 m (3.280 ft).	Working range:	from -40 to 86 °C (from -40 to	Type 1 or type 2 actions:	type 1.
stopped in a breakpoint	To wire the device one suggests using the connecting kit		186 °F).	Additional features of typ	
if it is out: - the device will not be compatible with the	CJAV35 (to order separately): only female removable screw connection terminal blocks with pitch 3.5 mm (0.137 in) for	Accuracy: Resolution:	±1 °C 0.1 °C.	 Displays: according to the r none (blind version) 	nouel:
application software	conductors up to 1.5 mm ² (0.0028 in ²) and only female re-	Conversion time:	100 ms.	- 4+4 digits custom displ	, ,
- the device will not be enabled to work with	movable screw connection terminal blocks with pitch 5.0 mm	Protection:			lour LCD graphic display (built-i
the special ABL (Application Block Libraries) LED system alarm	(0.196 in) for conductors up to 2.5 mm ² (0.0038 in ²).	Pt 1000 analog inputs (1 Working range:	<u>KΩ @ 0 °C, 32 °F)</u> from -100 to 400 °C (from -148	LCD version). Communication ports: 5 p	orts:
if it is lit, an alarm system not resettable via ap-	To program the device one suggests using the connecting ca-		to 752 °F).	- 1 RS-485 port with MO	DBUS slave communication pro
plication software will be running	bles 0810500018 or 0810500020 (to order separately): the	Accuracy:	- ±0.5 % of the full scale	tocol	DRUG master/alaya DAC/ MC
if it flashes slowly, a system alarm with auto- matic reset will be running	cable 0810500018 is 2.0 m (6.561 ft) long, the cable 0810500020 is 0.5 m (1.640 ft) long.		from -100 to 200 °C - ±2 °C from 200 to -400 °C.		DBUS master/slave, BACnet MS ocol (which can be set with th
if it flashes very slowly, an access to the external	Operating temperature:	Resolution:	0.1 °C.	development environme	ent UNI-PRO 3)
FLASH memory will be running	- from -10 to 55 °C (from 14 to 131 °F) for the built-in	Conversion time:	100 ms.		S communication protocol
if it flashes quickly, a system alarm with manual reset will be running	 versions from -20 to 55 °C (from -4 to 131 °F) for the blind ver- 	Protection: 0-20 mA and 4-20 mA ar	none. nalog inputs	1 000 pore	DBUS TCP, Web Server, BACne
if it is out, no alarm system will be running	sions.	Input resistance:	≤ 200 Ω.	IP communication proto	
CAN LED CANBUS CAN communication	Storage temperature: from -25 to 70 °C (from -13 to 158 °F).	Accuracy: Resolution:	± 0.5 % of the full scale. 0.01 mA.	The BACnet communication	protocol is in alternative to th
if it is lit, the device will be configured to commu- nicate via CANBUS CAN with another device but	Operating humidity: from 10 to 90% of relative humidity	Conversion time:	100 ms.	Web Server functionality.	protocol is in alternative to th
the communication will not have been set up	not condensing.	Protection:	none; the maximum current al-	The actual UNI-PRO 3.13 v	version implements a BACnet@
if it flashes slowly, the CANBUS CAN communica- tion will have been set up but it will not be com-	Control pollution situation: 2. Environmental conformity:	0-5 V ratiometric and 0-1	lowed on each input is 25 mA.		3-ASC, which doesn't require th Calendar objects, instead require
pletely correct	- RoHS 2011/65/CE	Input resistance:	$\geq 10 \text{ K}\Omega.$	for the B-AAC profile.	alendar objects, instead require
if it flashes quickly, the CANBUS CAN communi-	- WEEE 2012/19/EU	Accuracy:	± 0.5 % of the full scale.		
cation will have been set up and will be correct if it is out, no CANBUS CAN communication will	- REACH regulation (CE) n. 1907/2006. EMC conformity:	Resolution: Conversion time:	0.01 V. 100 ms.		
be running	- EN 60730-1	Protection:	none.		
L1 LED auxiliary	- IEC 60730-1.				
the operation of this LED can be set with the de- velopment environment UNI-PRO 3	 Power supply: 24 VAC, 50/60 Hz (±3 Hz), 20 VA max. not isolated 				
	- 20 40 VDC, 12 W max. not isolated				
TECHNICAL DATA	supplied by a class 2 circuit.	UNI-PRO 3			
		11 1 24 14 6 (D.C. EC) (CO 11		
	Protect the power supply with a 2 A-T 250 V fuse. If the device is powered in direct current, it will be necessary	- 11 at 24 VAC/DC, 50 24 VAC/DC, 50/60 Hz dig			
urpose of control: operating control device. onstruction of control: incorporated electronic device.	Protect the power supply with a 2 A-T 250 V fuse. If the device is powered in direct current, it will be necessary to respect the polarity of the power supply voltage.	- 11 at 24 VAC/DC, 50 24 VAC/DC, 50/60 Hz dig Power supply:			
Purpose of control: operating control device. Construction of control: incorporated electronic device. Rox: self-extinguishing grey.	If the device is powered in direct current, it will be necessary to respect the polarity of the power supply voltage. Rated impulse voltage: 4 KV.	24 VAC/DC, 50/60 Hz dig	aital inputs - 24 VAC (±15 %), 50/60 Hz (±3 Hz)		
urpose of control: operating control device. onstruction of control: incorporated electronic device. ox: self-extinguishing grey. leat and fire resistance category: D.	If the device is powered in direct current, it will be necessary to respect the polarity of the power supply voltage.	24 VAC/DC, 50/60 Hz dig	<u>gital inputs</u> - 24 VAC (±15 %), 50/60 Hz		
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Purpose of control: operating control device. Construction of control: incorporated electronic device. Sox: self-extinguishing grey. Heat and fire resistance category: D. Size: 142.0 x 128.0 x 60.0 mm (5.590 x 5.039 x 2.362 in;) W × H x D); 8 DIN modules. Size refers to the device with the extractable screw termi- nal blocks properly plugged. Method of mounting control: on DIN rail 35.0 x 7.5 mm 1.377 x 0.295 in) or 35.0 x 15.0 mm (1.377 x 0.590 in). Degree of protection: IP20 on the whole IP40 the front. Connections: only male removable screw connection terminal blocks with pitch 3.5 mm (0.137 in) for conductors up to 1.5 mm ² (0.0028 in ²): power supply, analog inputs, digital inputs, analog outputs, MODBUS slave RS-485 port, MODBUS master/slave RS-485 port and CANBUS CAN port only male removable screw connection terminal blocks with pitch 5.0 mm (0.196 in) for conductors up to 2.5 mm ² (0.0038 in ²): digital outputs A type USB connector: USB port RJ45 F telephone connector: MODBUS TCP, Web Server	If the device is powered in direct current, it will be necessary to respect the polarity of the power supply voltage. Rated impulse voltage: 4 KV. Overvoltage category: III. Class and structure of software: A. Real time clock: incorporated (with lithium primary battery). Battery range in absence of power supply: 5 years @ 25 °C (77 °F). Drift: ≤ 30 s/month @ 25 °C (77 °F). Analog inputs: 10 inputs: - 4 which can be set via configuration parameter for PTC, NTC or Pt 1000 probes - 6 which can be set via configuration parameter for PTC, NTC, Pt 1000 probes, 0-20 mA, 4-20 mA, 0-5 V ratiometric or 0-10 V transducers. Power supply 0-5 V ratiometric transducers: 5 VDC (+0 %, -12 %), 60 mA max. Power supply 0-20 mA, 4-20 mA and 0-10 V transducers: 24 VAC (+50 %, -25 %), 120 mA max. The maximum current which can be supplied on the whole from the two power supply is 120 mA. PTC analog inputs (990 Ω @ 25 °C, 77 °F) Kind of sensor: KTY 81-121. Working range: from -50 to 150 °C (from -58 to 302 °F). Accuracy: ±0.5 % of the full scale.	24 VAC/DC, 50/60 Hz dig Power supply: Input resistance: Protection: 24 VAC/DC, 2 KHz digital Power supply: Input resistance: Protection: Analog outputs: 6 outputs: 6 outputs: 6 outputs: 6 outputs: 6 outputs: 6 outputs: 7 2 which can be set v 0 r 0-10 V 2 which can be set v 0-20 mA, 4-20 mA o PWM analog outputs Power supply: Frequency: Duty: Protection: 0-20 mA and 4-20 mA ar Input resistance:	pital inputs - 24 VAC (±15 %), 50/60 Hz (±3 Hz) - 24 VDC (±66 %, -16 %). ≥ 10 KΩ. none. Linputs - 24 VAC (±15 %), 50/60 Hz (±3 Hz) - 24 VDC (±66 %, -16 %). ≥ 10 KΩ. none. uts: //ia configuration parameter for PWM t via configuration parameter for or 0-10 V. 10 VDC (±16 %, -25 %), 10 mA max. 0 2 KHz. 0 100 %. none. nalog outputs 40 300 Ω.		



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