c-pro 3 giga

Programmable controllers (up to 43 I/O)

PLEASE READ CAREFULLY
and save this document
CONSIDER THE ENVIRONMENT

EN ENGLISH

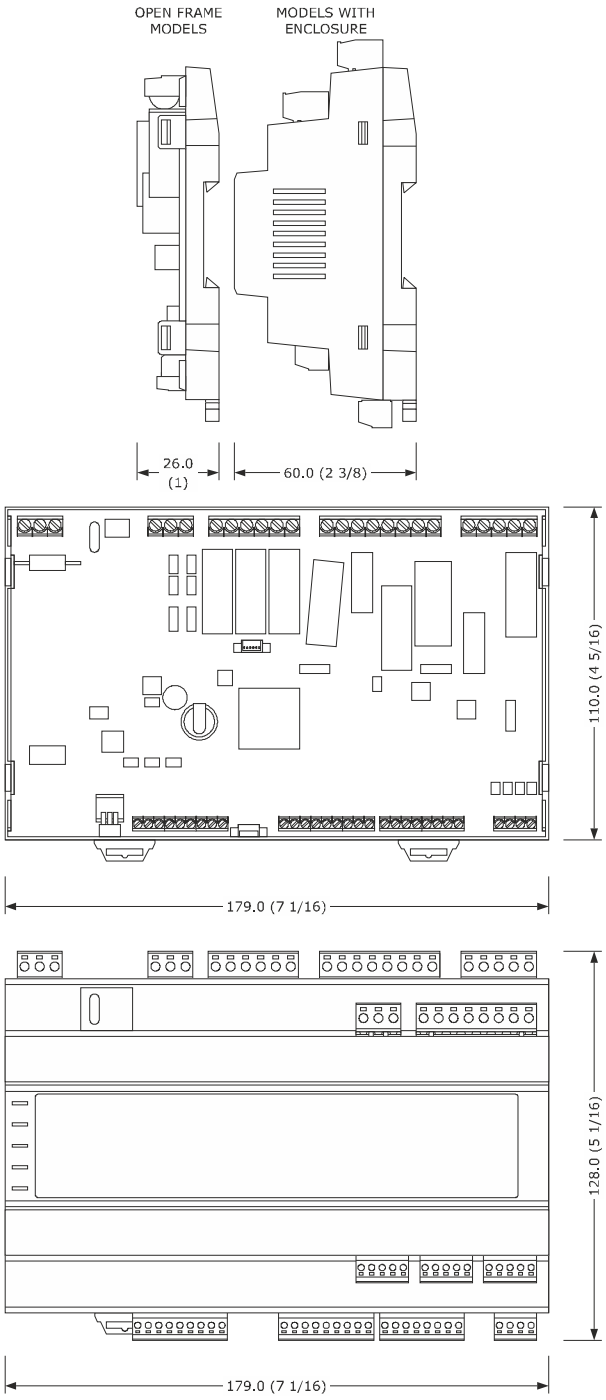
- blind open frame models or with enclosure
- power supply 115... 230 VAC
- clock
- 10 analogue inputs, 16 in the plus controllers (can be configured also for dry contact digital input)
- 3 dry contact digital inputs
- 2 high voltage digital inputs
- 4 analogue outputs, 8 in the plus controllers
- 9 electro-mechanical relay digital outputs, 14 in the plus controllers
- TTL MODBUS port
- INTRABUS port (RS-485 MODBUS master/slave by connecting the serial interface EVIF22ISX)
- RS-485 MODBUS slave port
- RS-485 port (MODBUS master/slave, BACnet MS/TP) (1)
- CAN port
- USB port
- models with Ethernet port (MODBUS TCP, WebServer, BACnet IP) (1)

(1) the BACnet communication protocol can be used only in alternative to the Web Server function

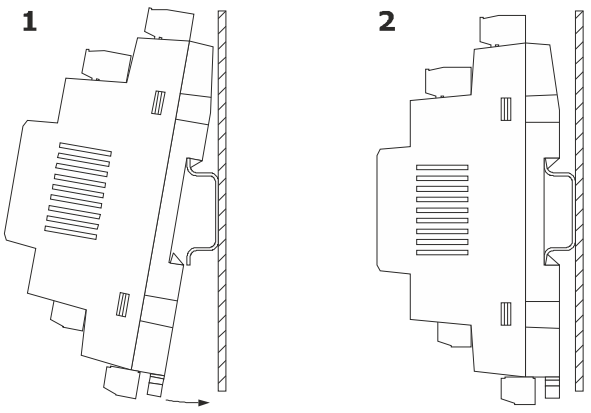
Kind of controller	Purchasing codes	Version	Power supply	I/O	Communication ports
standard	EPG9O	blind open frame	115... 230 VAC	28	TTL, INTRABUS, 2 RS-485, CAN and USB
standard	EPG9B	blind with enclosure		28	
plus	EPG9BXQ	cieca con contenitore		43	
plus	EPG9BHQ	cieca con contenitore		43	
standard	EPG9OHX	blind open frame		28	TTL, INTRABUS, 2 RS-485, CAN, USB and Ethernet
standard	EPG9BHX	blind with enclosure		28	
plus	EPG9BXP	blind with enclosure		43	
plus	EPG9BHP	blind with enclosure		43	

1 MEASUREMENTS AND INSTALLATION

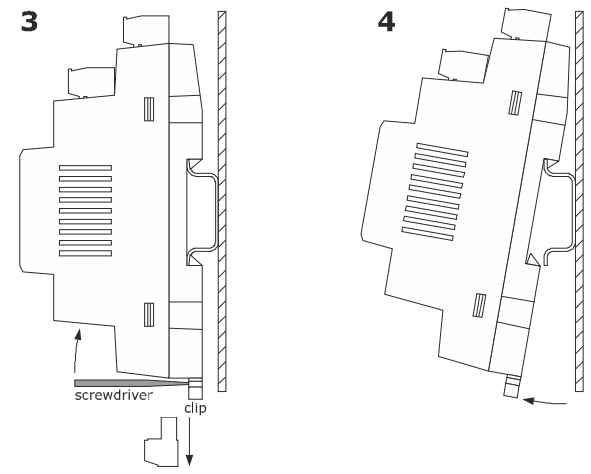
Measurements in mm (inches). To be fitted on a DIN rail, in a control panel.



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.



To install the device again press down the clip before.

INSTALLATION PRECAUTIONS

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

2 ELECTRICAL CONNECTION

N.B.
- 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 and/or a CAN network by using a twisted pair.

2.1 Connectors

2.1.1 Connectors available both in standard and plus controllers

Description of connectors.

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

N.	DESCRIPTION
DIHV1	high voltage digital input; DI1
DIHV2	high voltage digital input; DI2
COM	high voltage digital inputs common contact

N.	DESCRIPTION
NO1	K1 digital output normally open contact (3 A res. @ 250 VAC)
CO1	K1 digital output common contact
NO2	K2 digital output normally open contact (3 A res. @ 250 VAC)
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 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); AI1 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
AI3	analogue input 3 (for PTC, NTC or Pt 1000 probes); AI3 can be configured also for dry contact digital input
AI4	analogue input 4 (for PTC, NTC or Pt 1000 probes); AI4 can be configured also for dry contact digital input
AI5	analogue input 5 (for PTC, NTC or Pt 1000 probes); 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 mA transducers); AI6 can be configured also for dry contact digital input
AI7	analogue input 7 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20 mA transducers); AI7 can be configured also for dry contact digital input
AI8	analogue input 8 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20 mA transducers); AI8 can be configured also for dry contact digital input
AI9	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 can be configured also for dry contact digital input
AI10	analogue input 10 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20 mA transducers); AI10 can be configured also for dry contact digital input
+5V	power supply 0-5 V ratiometric transducers (5 VDC)
VS	power supply transducers (13 VDC)

N.	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)

2.1.2 Connectors only available in the plus controllers

Description of connectors.

N.	DESCRIPTION
NO10	K10 digital output normally open contact (8 A res. @ 250 VAC)
CO10	K10 digital output common contact
NC10	K10 digital output normally closed contact
NO11	K11 digital output normally open contact (5 A res. @ 250 VAC)
CO11	K11 digital output common contact
NO12	K12 digital output normally open contact (5 A res. @ 250 VAC)
CO12	K12 digital output common contact
NO13	K13 digital output normally open contact (5 A res. @ 250 VAC)
CO13	K13 digital output common contact
NO14	K14 digital output normally open contact (5 A res. @ 250 VAC)
CO14	K14 digital output common contact

N.	DESCRIPTION
GND	reference (GND)
AI11	analogue input 11 (for PTC, NTC or Pt 1000 probes); AI11 can be configured also for dry contact digital input
AI12	analogue input 12 (for PTC, NTC or Pt 1000 probes); AI12 can be configured also for dry contact digital input
AI13	analogue input 13 (for PTC, NTC or Pt 1000 probes); AI13 can be configured also for dry contact digital input
AI14	analogue input 14 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20 mA transducers); AI14 can be configured also for dry contact digital input

N.	DESCRIPTION
GND	reference (GND)
AI15	analogue input 15 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20 mA transducers); AI15 can be configured also for dry contact digital input
AI16	analogue input 16 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20 mA transducers); AI16 can be configured also for dry contact digital input
+5V	power supply 0-5 V ratiometric transducers (5 VDC)
VS	power supply transducers (13 VDC)

N.	DESCRIPTION (fo models EPG9BXP and EPG9BHP)
GND	reference (GND)
AO5	analogue output 5 (for 0-10 V or PWM)
AO6	analogue output 6 (for 0-10 V or PWM)
AO7	analogue output 7 (for 0-10 V or PWM)
AO8	analogue output 8 (for 0-10 V or PWM)

N.	DESCRIPTION (for models EPG9BXQ and EPG9BHQ)
GND	reference (GND)
DI6	digital input 6 (dry contact); DI6
DI7	digital input 7 (dry contact); DI7
DI8	digital input 8 (dry contact); DI8
DI9	digital input 9 (dry contact); DI9