c-pro 3 giga

Programmable controllers (up to 43 I/O)





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1 2 M M

To remove the device, first remove any screw-in removable terminal blocks mounted in 10 analogue inputs, 16 in the plus controllers (can be configured also for dry contact lower part, then operate as shown in pictures 3 and 4.

- digital input) 3 dry contact digital inputs
- 2 high voltage digital inputs
- 4 analogue outputs, 8 in the plus controllers

power supply 115... 230 VAC

blind open frame models or with enclosure

- 9 electro-mechanical relay digital outputs, 14 in the plus controllers, 11 in the U-EEV and B-EEV 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) $^{\scriptscriptstyle (1)}$
- CAN port
- USB port

EN ENGLISH

clock

- models with 2 integrated unipolar or bipolar stepper electronic expansion valves driver 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	Kind of integrated electronic expansion valves driver	Comm. ports
standard	EPG9O	blind open frame		28	none	
standard	EPG9B	blind with enclosure		28	none	
plus	EPG9BXQ	blind with enclosure		43	none	IIL, INTRABUS,
plus	EPG9BHQ	blind with enclosure		43	none	2 RS-485, CAN and
U-EEV	EPG9BXU	blind with enclosure		36	2 unipolar stepper type	USB
B-EEV	EPG9BXW	blind with enclosure	115 230	36	2 bipolar stepper type	
standard	EPG9OHX	blind open frame	VAC	28	none	
standard	EPG9BHX	blind with enclosure		28	none	TTL,
plus	EPG9BXP	blind with enclosure		43	none	INTRABUS, 2 RS-485,
plus	EPG9BHP	blind with enclosure		43	none	CAN, USB and
U-EEV	EPG9BHU	blind with enclosure		36	2 unipolar stepper type	Ethernet
B-EEV	EPG9BHW	blind with enclosure		36	2 bipolar stepper type	

1 MEASUREMENTS AND INSTALLATION







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

.10.0 (4 5/16)

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

Description of connectors. N. DESCRIPTION GND

		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								
the		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)								
	Ν.	DESCRIPTION								
	A01	analogue output 1 (for 0-10 V or PWM)								
	A02	analogue output 2 (for 0-10 V or PWM)								
	AO3	analogue output 3 (for 0-10 V or PWM)								
	A04	analogue output 4 (for 0-10 V or PWM)								
	2.1.2	Connectors only available in the plus controllers								
	Descrip	tion of connectors.								
	NI	DECONDITION								
	NO10	VID digital output normally on an contact (8.4 ros. @ 250.)/AC)								
	010	K10 digital output normally open contact (8 A res. @ 250 VAC)								
	010									
	NCIU	K10 digital output normally closed contact								
		K11 digital output normally open contact (2 A res. @ 250 VAC)								
	011	K11 digital output common contact								
	NO12	K12 digital output normally open contact (2 A res. @ 250 VAC)								
	C012	K12 digital output common contact								
	NO13	I K13 digital output normally open contact (2 A res. @ 250 VAC)								

analogue input 3 (for PTC, NTC or Pt 1000 probes); AI3

analogue input 4 (for PTC, NTC or Pt 1000 probes); AI4 can be configured also for dry contact digital input

analogue input 5 (for PTC, NTC or Pt 1000 probes); AI5

analogue input 6 (for PTC, NTC or Pt 1000 probes, 0-5 V, 0-10 V, 0-20 mA or 4-20

can be configured also for dry contact digital input

can be configured also for dry contact digital input

AI3

AI4

AI5

AI6

N. DESCRIPTION GND reference (GND)

mA transducers); AI6

NO14 K14 digital output normally open contact (2 A res. @ 250 VAC) CO14 K14 digital output common contact

CO13 K13 digital output common contact

Ν.	DESCRIPTION (for models EPG9BXP and EPG9BHP)
GND	reference (GND)
AO5	analogue output 5 (for 0-10 V or PWM)
A06	analogue output 6 (for 0-10 V or PWM)
A07	analogue output 7 (for 0-10 V or PWM)
A08	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
DIO	

power supply engine unipolar or bipolar stepper electronic expansion valve 1

(12 VDC, 260 mA max. winding in the U-EEV controllers, 12 VDC, 200 mA max. wind-

power supply engine unipolar or bipolar stepper electronic expansion valve 2

(12 VDC, 260 mA max. winding in the U-EEV controllers, 12 VDC, 200 mA max. wind-

OUT4 output 4 unipolar or bipolar stepper electronic expansion valve 1 engine control

OUT3 output 4 unipolar or bipolar stepper electronic expansion valve 1 engine control

OUT2 output 4 unipolar or bipolar stepper electronic expansion valve 1 engine control

OUT1 output 4 unipolar or bipolar stepper electronic expansion valve 1 engine control

OUT4 output 4 unipolar or bipolar stepper electronic expansion valve 2 engine control

OUT3 output 4 unipolar or bipolar stepper electronic expansion valve 2 engine control

OUT2 output 4 unipolar or bipolar stepper electronic expansion valve 2 engine control

OUT1 output 4 unipolar or bipolar stepper electronic expansion valve 2 engine control

2.1.4 Connectors available both in the plus controllers and in the U-EEV and B-EEV

DI8 digital input 8 (dry contact); DI8 DI9 digital input 9 (dry contact); DI9

2.1.3 Connectors only available in the U-EEV and B-EEV controllers Description of connectors.

NO10 K10 digital output normally open contact (5 A res. @ 250 VAC)

NO11 K11 digital output normally open contact (5 A res. @ 250 VAC)

N. DESCRIPTION

N. DESCRIPTION

N. DESCRIPTION

REF

REF

controllers

CO10 K10 digital output common contact

CO11 K11 digital output common contact

ing in the B-EEV controllers)

ing in the B-EEV controllers)



1108	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	A						
N.	DESCRIPTION	_						
CAN+	signal + CAN port	A						
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)							
/	data INTRABUS port							
IB	data INTRABUS port							
IB GND	data INTRABUS port reference (GND)							
IB GND 12V he act	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC,							
IB GND 12V he act hich d	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the profile.	A						
IB GND 12V he act /hich d -AAC p N.	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the profile. DESCRIPTION	A						
IB GND 12V he act /hich d -AAC p N. GND	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the orofile. DESCRIPTION reference (GND)	A						
IB GND 12V he act /hich d -AAC p N. GND DI3	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the orofile. DESCRIPTION reference (GND) digital input 3 (dry contact and for pulse trains up to 2 KHz); DI3	A						
IB GND 12V he act hich d -AAC p N. GND DI3 DI4	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the orofile. DESCRIPTION reference (GND) digital input 3 (dry contact and for pulse trains up to 2 KHz); DI3 digital input 4 (dry contact and for pulse trains up to 2 KHz); DI4	A						
IB GND 12V he act thich d -AAC p N. GND DI3 DI4 DI5	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the profile. DESCRIPTION reference (GND) digital input 3 (dry contact and for pulse trains up to 2 KHz); DI3 digital input 4 (dry contact and for pulse trains up to 2 KHz); DI4 digital input 5 (dry contact and for pulse trains up to 2 KHz); DI5	A						
IB GND 12V he act which d -AAC p N. GND DI3 DI4 DI5 AI1	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the profile. DESCRIPTION reference (GND) digital input 3 (dry contact and for pulse trains up to 2 KHz); DI3 digital input 4 (dry contact and for pulse trains up to 2 KHz); DI4 digital input 5 (dry contact and for pulse trains up to 2 KHz); DI5 analogue input 1 (for PTC, NTC or Pt 1000 probes); AI1	A						
IB GND 12V he act which d -AAC p N. GND DI3 DI4 DI5 AI1	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the orofile. DESCRIPTION reference (GND) digital input 3 (dry contact and for pulse trains up to 2 KHz); DI3 digital input 4 (dry contact and for pulse trains up to 2 KHz); DI4 digital input 5 (dry contact and for pulse trains up to 2 KHz); DI5 analogue input 1 (for PTC, NTC or Pt 1000 probes); AI1 can be configured also for dry contact digital input							
IB GND 12V he act chich d -AAC p N. GND DI3 DI4 DI5 AI1 AI2	data INTRABUS port reference (GND) power supply remote user interfaces (13 VDC) ual UNI-PRO 3.13 version implements a BACnet® standardized device profile B-ASC, oesn't require the managing of Scheduler and Calendar objects, instead required for the orofile. DESCRIPTION reference (GND) digital input 3 (dry contact and for pulse trains up to 2 KHz); DI3 digital input 4 (dry contact and for pulse trains up to 2 KHz); DI4 digital input 5 (dry contact and for pulse trains up to 2 KHz); DI5 analogue input 1 (for PTC, NTC or Pt 1000 probes); AI1 can be configured also for dry contact digital input analogue input 2 (for PTC, NTC or Pt 1000 probes); AI2	A						

	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
11		can be configured also for dry contact digital input
-1	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
-		
-	Ν.	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
е	+5V	power supply 0-5 V ratiometric transducers (5 VDC)
	VS	power supply transducers (13 VDC)
-		
-		
-		
-		
-1		

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2.2 Electrical connection

Example of electrical connection for standard and plus controllers.





To fit the termination resistor of the RS-485 network connected to the RS-485 MODBUS slave port, place micro-switch **MBS1LT** in position ON.

To fit the termination resistor of the RS-485 network connected to the RS-485 port (MODBUS master/slave, BACnet MS/TP), place micro-switch **MBS2LT** in position ON.



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 TECHNICAL SPECIFICATIONS

		0/4-20 mA Input resistance:		≤ 200 Ω					
Purpose of the control device: Function controller.		transducers: Resolution:		0.01 mA.					
Construction of the control device: Built-in electronic device.			Power supply remote user interfaces:			13 VDC, +20 % -10%, 150 mA max.			
Container: Grey, self-extinguishing.			Power supply transducers:			13 VDC, +20 % -10%, 100 mA max.			
Category of heat and fire resist	tance:	D.					(+40 mA max.	in the plus controllers, 60 mA	
Measurements:							in the U-EEV ar	d B-EEV controllers).	
10 DIN modules: 179.0 x 110).0 x 26.0 mm	10 DIN modules: 179.0 x 128.0 x 60.0 mm		Power supply 0-5 V ratiometric transducers:		5 VDC, ±15 %, 20 mA max. (+40 mA max.			
(7 1/16 x 4 5/16 x 1 in) the open frame (7 1		(7 1/16 x 5 1/	'16 x 2 3/8 in) the models with	n			in the plus cont	rollers).	
models		enclosure.		Digital inputs:			3 dry contact and for pulse trains up to 2 KHz		
Mounting methods for the cont	rol device:	To be fitted on	a DIN rail, in a control panel.	1			2 high voltage.		
Degree of protection provided	by the covering:			Dry contact:		Contact type:		3.3 VDC, 1 mA	
IP00 the open frame models		IP40 the front	of the models with enclosure.	Power supply:					
Connection method:				High voltage c	ontac:	Power supply:		115 230 VAC.	
screw terminal blocks for wi	ires up to 1.5	removable scr	ew terminal blocks for wires up	Unipolar stepper electronic expansion valves		according to the model, 2 (12 VDC, 260 mA			
mm ² and 2.5 mm ² the open fr	ame models	to 1.5 \mbox{mm}^2 and 2.5 \mbox{mm}^2 the models with enclosure		driver:			max. winding). according to the model, 2 (12 VDC, 200 mA		
				Bipolar stepper electronic expansion valves					
removable clamp terminal bloc	cks for wires up	Pice-Blade connector		driver:		max. winding).			
to 1.5 mm ² the plus controller	s			Analogue outp	uts:		4 for 0-10 V or PWM signal, 8 in the plus con-		
Micro-USB connector		RJ45 F telephone connector (according to the				trollers			
		model).		0-10 V sig- Minimum applicable i		licable imped-	i- 1 KΩ		
Maximum permitted length for	connection cable	es:		nal: ance:					
Power supply: 10 m (32.8 ft)		Analogue inputs: 10 m (32.8 ft)		Resolution:		0.01 V.			
Auxiliary power supply and 0-	5 V ratiometric	Digital inputs: 10 m (32.8 ft)		PWM signal:	Power supply:		0 10 VDC, 10	mA max.	
transducer power supply: 10 m	n (32.8 ft)			. Frequency:		10 Hz 2 KHz			
0-10 V analogue outputs: 10 n	n (32.8 ft)	PWM analogue outputs: 1 m (3.28 ft)		Duty:		0 100%.			
Digital outputs: 100 m (328 ft)		INTRABUS por	t: 10 m (32.8 ft)		Resolution:		1% up to 500 H	Iz, 5% up to 2 KHz.	
Unipolar or bipolar stepper elec	ctronic expansior	n valves driver:	3 m (9.84 ft)	Digital outputs:		2 with SPST electro-mechanical relay, 2 A		N.B.	
RS-485 MODBUS port: 1,000 r	n (3,280 ft)	USB port: 1 m	(3.28 ft).			res. @ 250 VAC, 6 in the plus controllers		The device must be disposed of according to local regulations governing the collection	
CAN port:	1,000 m (3,280 ft), baud rate: 20,000 baud						5 with SPST electro-mechanical relay, 3 A		of electrical and electronic waste.
	500 m (1,640 f	(1,640 ft), baud rate: 50,000 baud						:	
250 m (820 ft) 50 m (164 ft),		, baud rate: 12	5,000 baud				1 with SPDT electro-mechanical relay, 3 A		This document and the solutions contained therein are the intellectual property of EVCO and thus pro-
		baud rate: 500,000 baud.					res. @ 250 VAC	, 2 in the plus controllers	tected by the Italian Intellectual Property Rights Code (CPI). EVCO imposes an absolute ban on the full
Operating temperature:		From -10 to 55 °C (from 14 to 131 °F).					2 with SPST	electro-mechanical relay, 5 A	or partial reproduction and disclosure of the content other than with the express approval of EVCO. The
Storage temperature:		From -20 to 70 °C (from -4 to 158 °F).					res. @ 250 VA	C, only available in the U-EEV	customer (manufacturer, installer or end-user) assumes all responsibility for the configuration of the de-
Operating humidity:		Relative humidity without condensate from 5					and B-EEV cont	rollers	vice.
to 95%.						1 with SPST	electro-mechanical relay, 8 A	EVCO accepts no liability for any possible errors in this document and reserves the right to make any	
Pollution status of the control device: 2.						res. @ 250 VAC		changes, at any time without prejudice to the essential functional and safety features of the equipment.	
Compliance:									
RoHS 2011/65/EC WEEE 2012/19		19/EU REACH (EC) Regulation no.							
		1907/2006							
EMC 2014/30/EU		LVD 2014/35/UE.							
									email mogevco.r (web www.evco.r

-					
Power supply:		115 230 VAC (+10% -15%), 50/60 Hz			
		(±3 Hz), max. 16 VA, 20 VA in the plus con-			
		trollers, 27 VA in the U-EEV and B-EEV con-			
		trollers.			
Earthing metho	ods for the control device:	None.			
Rated impulse-	withstand voltage:	2.5 KV.			
Over-voltage c	ategory:	II.			
Software class	and structure:	Α.			
Clock:		With secondary lithium battery.			
Clock drift:		\leq 30s/month at 25°C (77 °F).			
Clock battery a	autonomy in the absence of a	> 6 months at 25 °C (77 °F).			
power supply:					
Clock battery c	harging time:	24h (the battery is charged by the power			
		supply of the device).			
Analogue input	s:	5 for PTC, NTC or Pt 1000 probes, 8 in the			
		plus controllers and in the U-EEV and B-EEV			
		controllers (can be 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, 8 in			
		the plus controllers and in the U-EEV and B-			
		EEV controllers (can be configured also for			
		dry contact digital input).			
PTC probes:	Sensor type:	KTY 81-121 (990 Ω @ 25 °C, 77 °F)			
	Measurement field:	from -50 to 150 °C (from -58 to 302 °F)			
	Resolution:	0.1 °C (1 °F).			
NTC probes:	Sensor type:	ß3435 (10 KΩ @ 25 °C, 77 °F)			
	Measurement field:	from -50 to 120 °C (from -58 to 248 °F)			
	Resolution:	0.1 °C (1 °F).			
Pt 1000	Sensor type:	1 KΩ @ 0 °C, 32 °F			
probes:	Measurement field:	from -100 to 400 °C (from -148 to 752 °F)			
	Resolution:	1 °C (1 °F).			
0-5 V trans-	Input resistance:	≥ 10 KΩ			
ducers:	Resolution:	0.01 V.			
0-10 V trans-	Input resistance:	≥ 10 KΩ			
ducers:	Resolution:	0.01 V.			
0/4-20 mA	Input resistance:	≤ 200 Ω			
transducers:	Resolution:	0.01 mA.			
Power supply r	emote user interfaces:	13 VDC, +20 % -10%, 150 mA max.			
Power supply t	ransducers:	13 VDC, +20 % -10%, 100 mA max.			
		(+40 mA max. in the plus controllers, 60 mA			
		in the U-EEV and B-EEV controllers).			
Power supply 0	-5 V ratiometric transducers:	5 VDC, ±15 %, 20 mA max. (+40 mA max.			
		in the plus controllers).			
Digital inputs:		3 dry contact and for pulse trains up to 2 KHz			
		2 high voltage.			



The device guarantees:

- reinforced insulation between SELV circuits and relay outputs
- 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)

inpace (Binti and Binti)						
- basic insulation between live parts of opposite polarity (line-neutral).						
Type 1 or Type 2 Actions:	Type 1.					
Additional features of Type 1 or Type 2 ac-	С.					
tions:						
Communications ports:						
1 TTL MODBUS port	1 INTRABUS port (RS-485 MODBUS mas-					
	ter/slave by connecting the serial interface					
	EVIF22ISX)					
1 RS-485 MODBUS slave port	1 RS-485 port (MODBUS master/slave, BAC-					
	net MS/TP)					
1 CAN port	1 USB port					

according to the model, Ethernet port (MODBUS TCP, WebServer, BACnet IP).

1 MB program memory