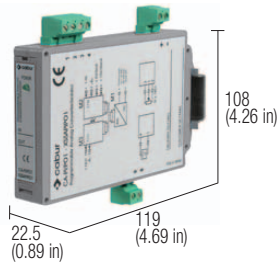


XCAPIPO3

Programmable Analog Signal Converter

Programmable analogue signal converter

- 19 input scales
- 7 output scales
- 1 SPST (NO) alarm contact
- IV/OUT isolation >3 kVac
- Auxiliary supply output for loop-powered sensors
- Input for potentiometer



TAB.1 - INPUT SELECTION TABLE

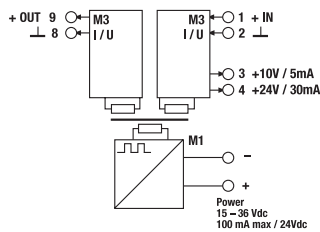
INPUT RANGE		SW1 (INPUT)							
UNIPOLAR	BIPOLAR	1	2	3	4	5	6	7	8
0 - 60 mV	± 60 mV								
0 - 100 mV	± 100 mV		•						
0 - 500 mV	± 500 mV			•					
0 - 1 V	± 1 V				•				
0 - 2 V	± 2 V					•			
0 - 5 V	± 5 V			•	•	•	•		
0 - 10 V	± 10 V							•	
0 - 5 mA	± 5 mA	•		•					
0 - 10 mA	± 10 mA	•			•				
0 - 20 mA	± 20 mA	•						•	
4 - 20 mA	—	•					•		•

NOTES

The dimensions includes the terminal blocks and the DIN clamp.

(1) The modules in stock are programmed and calibrated with with 0...10 V and 0...10 V output. Modules programmed and calibrated for all other possible configurations can be supplied on request.

BLOCK DIAGRAM



TAB.2 - OUTPUT SELECTION TABLE

OUTPUT RANGE	INPUT TYPE	SW2 (OUTPUT)								SW3
		1	2	3	4	5	6	7	8	
0 - 5 V	UNIF.	X								U
	BIF.	X	•						•	U
± 5 V	UNIF.	X		•					•	U
	BIF.	X		•					•	U
0 - 10 V	UNIF.	X			•					U
	BIF.	X			•					U
± 10 V	UNIF.	X				•				U
	BIF.	X				•				U
0 - 20 mA	UNIF.	X						X		I
	BIF.	X						X		I
± 20 mA	UNIF.	X		•				X		I
	BIF.	X		•				X		I
4 - 20 mA	UNIF.	X			•			X		I
	BIF.	X			•			X		I

• = ON
= OFF
X = ANY

VERSIONS

Cat. No. XCAPIPO3

CAPIPO3

INPUT TECHNICAL DATA

Input signal (1)	19 programmable ranges (see Table 1)
Impedance voltage / current mode	1 MΩ / 50 Ω
Max. input voltage	15 V
Max. input current	30 mA

OUTPUT TECHNICAL DATA

Output signal (1)	7 programmable ranges (see Table 2)
Applicable load (voltage / current model)	≥ 10 kΩ / ≤ 500 Ω
Max. output voltage	12 V
Max. output current	25 mA

GENERAL TECHNICAL DATA

Supply voltage	15...36 Vdc
Rated current	100 mA max. @ 24 Vdc
Auxiliary DC feed output max. current	10 Vdc 5 mA / 24 Vdc 30 mA
Gain error	< 0.1% FS
Offset error	< 0.05% FS
Linearity error	< 0.1% FS
Zero adjustment / Span adjustment	± 10% FS
Transmission frequency	400Hz...1kHz according to full-scale
Rise time	150 mV / μs
Bandwidth	1 kHz @ -6 dB
Phase delay	< 10 μs
I/O / supply isolation	> 3 kVac / 60 s
Continuous voltage isolation	800 Vac max.
Reference Standard	IEC 664-1, DIN VDE0110.1
Overvoltage category/Pollution degree	III / 2
Operating temperature range	-10... +65°C
Δ T	5°C
Protection degree	IP 20 IEC 529, EN60529
ECM standards	EN 50081-2, EN 50082-2
Connection terminal	2.5 mm ² pluggable screw type (14 AWG)
Housing material	polyamide UL94V-0
Approx. weight	150 g (5.29 oz)
Mounting information	vertical on rail, allow 5 mm spacing between adjacent component

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail type according to IEC60715/G32	—
Plug-in jumper	—
	red
	white
	blue

INPUT STAGE

The module can manage single-pole and two-pole inputs, choosing from among the ranges (see Table 1):

- 0...60 mV ± 60 mV
- 0...100 mV ± 100 mV
- 0...500 mV ± 500 mV
- 0...1 V ± 1 V
- 0...5 V ± 5 V
- 0...10 V ± 10 V
- 0...5 mA ± 5 mA
- 0...10 mA ± 10 mA
- 0...20 mA ± 20 mA
- 4...20 mA

The input stage provides two auxiliary supply outputs, for feeding loop powered sensor and potentiometer directly from the module (10V e 24V).

Example of connection:



OUTPUT STAGE

The module supplies in output single-pole and two-pole signals with the following ranges (see Table 2):

- 0...5 V ± 5 V
- 0...10 V ± 10 V
- 0...20 mA ± 20 mA
- 4...20 mA