

EP4

- EXPANSION UNITS FOR SIGMAPAC AND NANOPAC PROGRAMMABLE CONTROLLERS



FEATURES

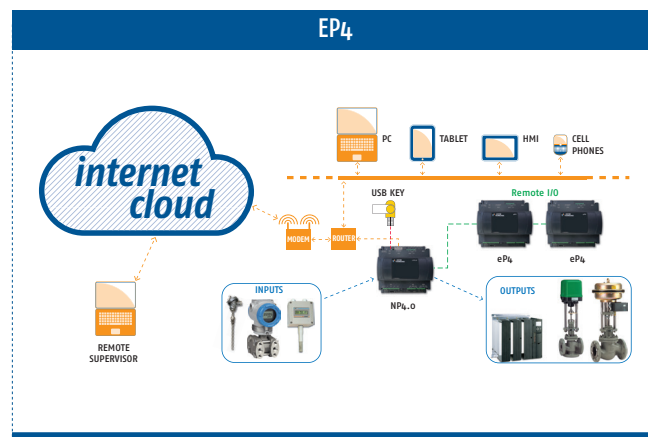
INPUTS		EP4
0/4/8 Universal Analogue		Configurable between: 0/1... 5 V, 0/2... 10 V, 0/4... 20 mA, TC (J, K, L, N, R, S, T), PT100 (2 wires), PT1000, NTC (103AT-2), Potentiometer
		16 bit resolution
		Accuracy 0,1% of span (linear), 0,2% (temperature)
		Input Impedance >120 kΩ, <200 Ω (mA)
8/16 + 2 Digital		Insulation 800 V between analogue channels and power supply, digital I/Os and serial comms ports (isolated version)
		8/16 (I/O version) sink type IEC61131-2 type 3
		2 input sink type IEC61131-2 type 3 for counters and frequency (5 kHz max)
		Protection: reverse polarity and overvoltage
		Insulation 800 V between digital channels, power supply, analogue I/Os and serial comms ports (isolated version)
OUTPUTS		
0/2/4 Analogue		Configurable 0/1... 5 V, 0/2... 10 V, 0/4... 20 mA
		12 bit resolution
		Accuracy 0.1 % full scale
8/16 Digital		Insulation 800 V between analogue outputs and power supply, analogue inputs, digital I/Os and serial comms ports (isolated version)
		8/16 (I/O version) high-side output 0.7 A each
		Insulation 800 V between digitals and power supply, analogue I/Os and serial comms ports (isolated version)
4 Relay/SSR Drive		Relay 2 A, 240 Vac, or SSR drive max 20 mA, 12V
		Protection: Overvoltage
		Insulation 2500V (Relay), 800V SSR drive with respect power supply, analogue & digital I/Os and serial comms ports (isolated version)
SERIAL PORTS AND COMMUNICATION		
Communication port		1 SPI + 1 RS485 (optional, isolated)
Protocol		Proprietary protocol for local expansion, Modbus RTU (Slave)
FUNCTIONAL		
Processor		ARM Cortex 32 bit
GENERALS		
Power Supply		24 Vdc (-15... +25%)
Power consumption		12 W
Dimensions / Weight		WxHxD. 105 x 110 x 60 mm (6 DIN module) / 512 g
Mounting		On Omega DIN A rail
Protection		IP 20
Operating/storage temperature		-20... 50°C (-4... 122°F) / -40... 70°C (-40... 158°F)
Operating Humidity		5... 95 RH% without condensation

HOW TO ORDER

To compose the part number, pls. choose one of the option for each variable

SIGMA2 - EP4	CODE
DISPLAY	
Without display	-
DIGITAL OUTPUTS	
Not provided	-
2 Relay DO + 2 SSR drive DO	M
4 Relay DO	R
4 SSR drive DO	S
ANALOGUE INPUTS	
Not provided	-
4 universal inputs	4
8 universal inputs	8
ANALOGUE OUTPUTS	
Not provided	-
1 Module with 2 ch. not isolated	2
2+2 Modules with 2 analogue ch. (isolated from each other)	4
DIGITAL INPUTS	
Not provided	--
8DI + 8DO + 2 DI CNT	88
16 configurable + 2 DI CNT	16
FIELDBUS	
Not available	-
RS485 Modbus RTU Slave	M
COMMUNICATION PORTS	
SPI port only	--
RS485 isolated (with Modubus RTU Slave only)	4I
CASE COLOUR	
Grey	G
White	W

CONNECTIONS



DIMENSIONS

