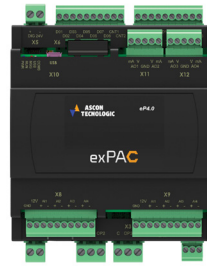


# EP4

• EXPANSION UNITS FOR SIGMAPAC AND NANOPAC PROGRAMMABLE CONTROLLERS



**FEATURES**

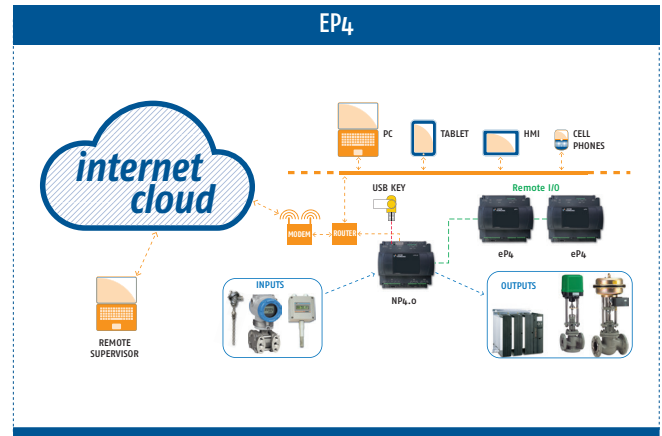
INPUTS	
	<b>EP4</b>
0/4/8 Universal Analogue	Configurable between: 0/1... 5 V, 0/2... 10 V, 0/4... 20 mA, TC (J, K, L, N, R, S, T), PT100 (2 wires), PT1000, NTC (103AT-2), Potentiometer
	16 bit resolution
	Accuracy 0,1% of span (linear), 0,2% (temperature)
	Input Impedance >120 kΩ, <200 Ω (mA)
8/16 + 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

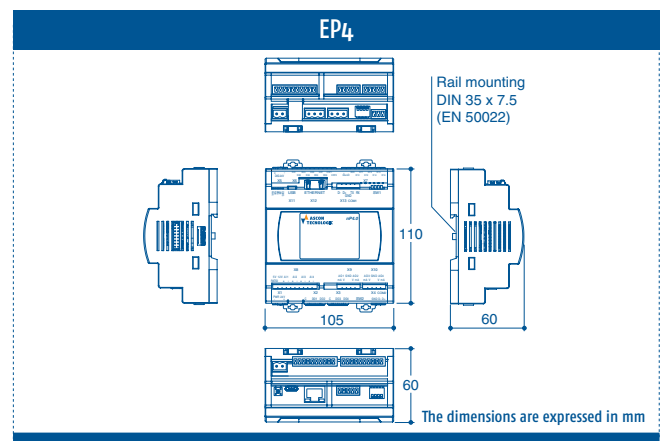
To compose the part number, pls. choose one of the option for each variable

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

## CONNECTIONS



## DIMENSIONS



- INDUSTRIAL CONTROLLERS
- ADVANCED PROGRAMMER CONTROLLERS
- DIN RAIL MOUNTING CONTROLLERS
- THERMOSTATS ANALOGUE CONTROLLERS
- SPECIAL CONTROLLERS AND "CUSTOM"
- PAC SYSTEMS
- PRE-PROGRAMMED SYSTEMS
- PLC AND OPERATOR PANELS
- TIMERS COUNTERS POWER LIMITERS
- INDICATORS
- I/O MODULES
- SUPERVISION
- COMBUSTION CONTROL
- ACCESSORIES