EP4

- EXPANSION UNITS FOR SIGMAPAC CONTROLLERS

FEATURES

INPUTS	EP4
0/4 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, 5 V Ratiometric
	16 bit resolution
	Accuracy 0,1% of span (linear), 0,2% (temperature)
	Input Impedance >100 kΩ, <200 Ω (mA)
	Insulation 800 V between analogue channels and power supply, digital I/Os and serial comms ports (insulated version)
8/16 + 2 Digital	8 (16 I/O mix) sink type IEC611131-2 type 3
	2 input sink type IEC611131-2 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
	Insulation 800 V between analogue outputs and power supply, analogue inputs, digital I/Os and serial comms ports (isolated version)
8/16 Digital	8 (16 I/O mix) 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	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. 108 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

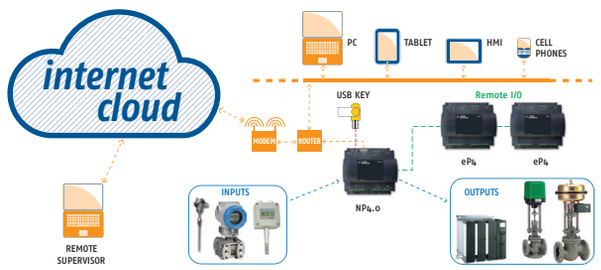
HOW TO ORDER

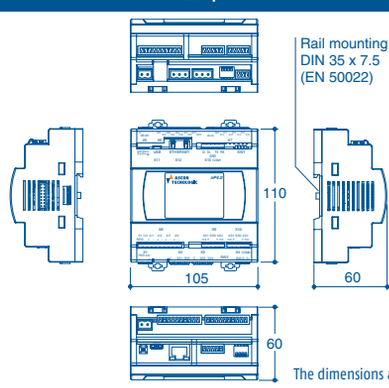
To compose the part number, pls. choose one of the option for each variable

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 & raziometric	5
ANALOGUE OUTPUTS	
Not provided	–
2 ch. not isolated	2
4 ch (2 off 2 ch. modules isolated from each other)	4
DIGITAL INPUTS	
Not provided	--
8DI + 8DO + 2 DI for counter and Frequency	88
16 Digitals (config. as IN or OUT) + 2 DI counter/Frequency	16
FIELDBUS	
Ethernet	E
COMMUNICATION PORTS	
RS485 isolated with Modubus RTU Slave	4I
CASE COLOUR	
Grey	G
White	W

CONNECTIONS

EP4



DIMENSIONS

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