

- COMPACT PROGRAMMABLE CONTROLLER (NANOPAC)
- •ON BOARD I/O
- **EXPANSION CAPABILITIES**



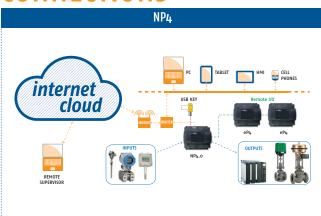
FEATURES

INPUTS	NP4			
	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			
4 Universal Analogue	Accuracy 0,1% of span (linear), 0,2% (temperature)			
	Input Impedance >100 k $\Omega_{\rm r}$ <200 Ω (mA)			
	Insulation 800 V between analogue channels and power supply, digital I/Os and serial comms ports (insulated version)			
	8 (16 I/O mix) sink type IEC611131–2 type 3			
Ohe La Digital	2 input sink type IEC61131-2 type 3 for counters and frequency (5 kHz max)			
8/16 + 2 Digital	Protection: reverse polarity and overvoltage			
	Insulation 800 V between digital channels, power supply, analogue I/Os and serial comms ports (isolated version)			
OUTPUTS				
	Configurable 0/1 5 V, 0/2 10 V, 0/4 20 mA			
	12 bit resolution			
0/2/4 Analogue	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			
ono digital	Insulation 800 V between digitals and power supply, analogue I/Os and serial comms ports (isolated version)			
	Relay 2 A, 240 Vac, or SSR Drive max 20 mA, 12V			
4 Relay/SSR Drive	Protection: Overvoltage			
4 Holdy 155 H 5 HVC	Insulation 2500V (Relay), 800V SSR Drive with respect power supply, analogue & digital I/Os and serial comms ports (isolated version)			
SERIAL PORTS AND COMMUNICATION				
Ethernet	Ethernet port 10/100 MB			
o/1/2 Serial	1 RS232/485 + 1 RS485 (optional/ insulated)			
USB	Micro USB AB type (HOST)			
Protocol	Modbus TCP Server, Modbus RTU (Master e Slave), ASCII			
FUNCTIONAL				
Processor	ARM Cortex M7 32 bit, 216 MHz			
Memory	16 MB Flash, 32 MB SDRAM, 128 kB MRAM			
Programming	Standard languages IEC 61131–3 compliant: IL, ST, FBD, LD, SFC, CFC			
Real Time Clock	Back-up battery on board (rechargeable)			
GENERALS	** NA-1			
Power Supply	24 Vdc (-15 +25%)			
Power consumption	12 W			
Dimensions / Weight	105 X 110 X 60 mm (WXHXD) 6 DIN module / 512 g			
Mounting	On Omega DIN A rail			
Protection Operating/storage temperature	IP 20			
Operating Humidity	-20 50 °C (-4 122 °F) / -40 70 °C (-40 158 °F)			
Operating Humidity	5 95 RH% without condensation			

HOW TO ORDER

	r each varia
NP4	CODE
DISPLAY	
Without display	-
Display LCD 128 x 64 dot (not available yet)	D
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
4 universal & ratiometric inputs	5
2 mV inputs for O2 probes	0
ANALOGUE OUTPUTS	
Not provided	_
2 ch. not isolated	2
2 isolated modules with 2 analogue ch. each	4
DIGITAL INPUTS	
Not available	
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	
Not available	
RS232/485	15
RS232/485 isolated	1
RS232/485 + RS485 isolated	25
RS232/485 isolated + RS485 isolated	2
RS485 isolated	41
CASE COLOUR	
Grey	G
White	W

CONNECTIONS



DIMENSIONS

