

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



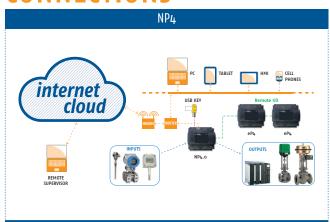


TETTORES	
INPUTS	NP4
	Configurable between: 0/1 5 V, 0/2 10 V, 0/4 20 mA, TC (J, K, L, N, R, S, T), PT1000 (2 wires), PT1000, NTC (103AT-2), Potentiometer, 5 V Ratiometric
4 Universal Analogue	16 bit resolution
	Accuracy 0,1% of span (linear), 0,2% (temperature)
	Input Impedance >100 k $\Omega$ , <200 $\Omega$ (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 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	
	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/0s 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)
	Relay 2 A, 240 Vac, or SSR Drive max 20 mA, 12V
4 Relay/SSR Drive	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	
Ethernet	Ethernet port 10/100 MB
0/1/2 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	
Power Supply	24 Vdc (-15 +25%) 50 Hz
Power consumption	12 VA
Dimensions / Weight	105 x 110 x 60 mm (WxHxD) 6 DIN module / 512 g
Mounting Protection	On Omega DIN A rail IP 20
Operating/storage temperature	-20 50 °C (32 122 °F) / -40 70 °C (-40 158 °F)
Operating Humidity	5 95 RH% without condensation
operating numbers	5 95 km% without condensation

## **HOW TO ORDER**

o compose the part number, pls. choose one of the option for each variable		
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	М	
4 Relay DO	R	
4 SSR drive DO	S	
ANALOGUE INPUTS		
Not provided	-	
4 universal inputs	4	
4 universal & ratiometric inputs	5	
ANALOGUE OUTPUTS		
Not provided	-	
2 ch. not isolated	2	
2 isolated modules with 2 analogue ch. each	4	
DIGITAL INPUTS		
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	21	
RS485 isolated	41	
CASE COLOUR		
Grey	G	
White	W	

## **CONNECTIONS**



## **DIMENSIONS**

