

PM10

1-8 input channels

PM10 panel meter series is preeminent panel meter on the market. It is a result of multiple years of development and customer feedback results. It combines new innovations and many good technical implementations of the previous Nokeval products. PM10 is a dream come true for many tasks you've always dreamed of panel meter being able to do.

PM10 SMART METER



Features:

- two input channels (with option cards 4-8 channels), Pt100, thermocouples, 4-20 mA, 0-10V/mV
- two output channels for 4-20 mA or 0-10V outputs
- two alarm relays
- I/O-lines
- multi-color six-character alphanumeric display
- a wide range of mathematical functions
- MicroUSB connector for MekuWin configuration use
- the ability to lock the cards with the screws very tightly for vibration sensitive conditions
- serial output RS485, Modbus protocol
- power supply 24 VDC

Features of optional cards:

- two channel output card
- two alarm relay card
- pulse input card (ask for delivery time)
- wireless radio card (ask for delivery time)
- power supply card for 90..240 VAC (ask for delivery time)



Slots of the mother board are freely selectable for input and output cards.

Combinations of input and output cards

ITEM	
PM10A	Case + Display
POW24SA	Power with Serial Bus
UNI2A	Universal Input x2
OUT2A	Process Output x2
REL2A	Relay Output x2

COMBINATION EXAMPLES	INPUT	OUTPUT	RELAY	SIMILAR*
PM10A - UNI2A - POW24SA	2	0	0	2212-24VDC
PM10A - UNI2A - REL2A - POW24SA	2	0	2	2212-REL2-24VDC
PM10A - UNI2A - UNI2A - UNI2A - UNI2A - POW24SA	8	0	0	538-8-SC-24VDC
PM10A - UNI2A - UNI2A - OUT2A - OUT2A - POW24SA	4	4	0	
PM10A - UNI2A - UNI2A - REL2A - REL2A - POW24SA	4	0	4	
PM10A - UNI2A - OUT2A - REL2A - POW24SA	2	2	2	
PM10A - POW24SA	0	0	0	2071-24VDC
PM10A - OUT2A - POW24SA	0	2	0	541-24VDC
PM20A-4xUNI2A-4xOUT2A-... [PM20 coming out 2015]	8	8	2	538-8-OUT-24VDC

* 18 channels PM20 smart display accepts all input and output cards of PM10, panel size 96 x96 mm.

Manufacturer

Nokeval

Input details	
inputs	mA
	mV
	Ohm
	Pt100
	Pt1000
	Thermocouples
	V
input channels	1-8
galvanic isolation	Input galvanically isolated from power supply and other cards
Output details	
output channels	1-8
Connection details	
connector model	MicroUSB
bus protocol	Modbus RTU
	Nokeval SCL
bus interface	RS-485
baud rates	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 and 230400
programming	Mekuwin
Display details	
display color	red, green and orange simultaneously
number of digits	6
digit size	14.5 mm
display	12 segment LED
Power supply	
supply voltage	24 VDC: 21...27 VDC
General information	
dimensions	96 x 48 x115 mm (WHD)
maximum ambient temperature	60°C
minimum ambient temperature	-10°C
case material	plastic, black
installation	Panel
protection class	IP65 (front panel with a rubber gasket provided)
weight	290 g (with the maximum number of cards)

Related products

	UNI2A	UNI2A is 2-channel measuring card of PM10 device for analog inputs.
	OUT2A	OUT2A is 2-channel output card of PM10 device.
	REL2A	REL2A is 2-relay alarm card of PM10 device.
	POW24SA	POW24SA is voltage card of PM10 device which also has a RS485 serial communication.
	PM10A	PM10 display, base and enclosure combination without any other cards. Requires at least PM10POW24SA to power up.