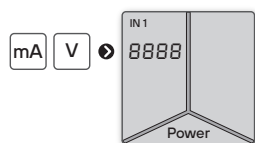


## OM 45PM

- 4.5-digit projection
- Range 0...5 mA; 0...20 mA; 4...20 mA  
 $\pm 2$  V;  $\pm 5$  V;  $\pm 10$  V
- Size of DIN 96 x 24 mm
- Power supply 12...24 VDC; 230 VAC

Type OM 45PM is an inexpensive, low 4.5-digit panel process monitor. Thanks to its dimensions the instrument is suitable for installation into mosaic panels.

### PROCESS MONITOR



#### OPERATION

The instrument is designed for simple measurements without further control. Placement of the decimal point is selectable by a shorting link under the front panel.

#### CALIBRATION

Possible corrections of display projection for both limit values of input signal may be performed by trimmers situated under the front panel ( $\pm 10\%$ ).

## TECHNICAL DATA

### INPUT

No. of inputs	1	The range is fixed	
PM Range	0...5 mA	< 500 mV	
	0...20 mA	< 500 mV	
	4...20 mA	< 500 mV	
	±2 V	1 MΩ	
	±5 V	1 MΩ	
	±10 V	1 MΩ	

### PROJECTION

Display	±19999, single color 7-segment LED
Digit height	14 mm
Display color	red or green
Decimal point	adjustable - by shorting link
Brightness	adjustable - by trimmers under the front panel

### INSTRUMENT SPECIFICATION

TC	50 ppm/°C
Accuracy	±0.15 % of FS + 1 digit
Rate	12...10 measurement/s
Overload	10x (t < 30 ms), 2x
Calibration	at 25°C and 40 % rh.

### POWER SUPPLY

Range	10...30 V AC/DC, ±10 %, PF ≥ 0.4, I <sub>SP</sub> < 40 A / 1 ms, isolated 100...250 V AC/DC, ±10 %, PF ≥ 0.4, I <sub>SP</sub> < 40 A / 1 ms, isolated <i>Protection by fuse inside the device</i>
Consumption	< 2.3 W / 2.5 VA

### MECHANIC PROPERTIES

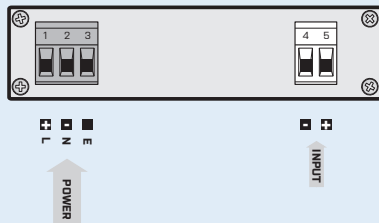
Material	Noryl GFN2 SE1, incombustible UL 94 V-1, black
Dimensions	96 x 24 x 100 mm (w x h x d)
Panel cutout	90.5 x 21.5 mm (w x h)

### OPERATING CONDITIONS

Connection	connector terminal blocks, section < 2.5 mm <sup>2</sup>
Stabilization period	within 5 minutes after switch-on
Working temperat.	0°...60°C
Storage temperat.	-20°...85°C
Working humidity	< 95 % r.v., non condensing
Protection	IP40, front panel only
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	4 kVAC per 1 min test between supply and input
Insulation resist.*	for pollution degree II, measuring cat. III power supply, input > 600 V (PI), 300 (DI) input, output, excitation > 300 V (PI), 150 V (DI)
EMC	EN 61326-1, Industrial area

\* PI - Primary insulation, DI - Double insulation

## CONNECTION



## ORDER CODE

**OM 45PM** -

<b>Power supply</b>	230 VAC/50 Hz	<b>1</b>	
	12...24 VDC, unisolated	<b>2</b>	
<b>Measuring range</b>	0...5 mA		<b>A</b>
	0...20 mA		<b>B</b>
	<b>4...20 mA</b>		<b>C</b>
	±2 V		<b>D</b>
	±5 V		<b>E</b>
	±10 V		<b>F</b>
	on request		<b>Z</b>
<b>Display color</b>	red		<b>1</b>
	green		<b>2</b>

In your order kindly state the requested projection for the selected input range (e.g. input 0...20 mA > projection 0.00...100.00!)

Basic configuration of the instrument is indicated in bold.