



PROCESS MONITOR

- 4,5-digit projection
- Range: 0...5 mA; 0...20 mA; 4...20 mA
±2 V; ±5 V; ±10V
- Size of DIN 96 x 24 mm
- Power supply 12...24 VDC; 230 VAC

OM 45PM

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.

OM 45PM
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

Number of inputs	1	
PM Range	fixed - by order	
	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 ACCURACY

TC: 100 ppm/°C
 Accuracy: ±0,15% of range + 1 digit
 Rate: 1,2/2,5/5/10 measurement/s
 Overload capacity: 2x; 10x (t < 30 ms)
 Calibration: at 25°C and 40 % r.h.

POWER SUPPLY

Range: 230 VAC/50 Hz, ±10 %, 2,5 VA
 12...24 VDC/max: 2,3 W, uninsulated
 Power supply is protected by a fuse inside the instrument.

MECHANIC PROPERTIES

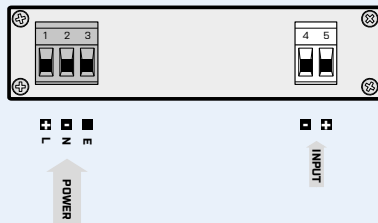
Material: Noryl GFN2 SE1, incombustible UL 94 V-1
 Dimensions: 96 x 24 x 100 mm (w x h x d)
 Panel cutout: 90,5 x 21,5 mm (w x h)

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 2,5 mm²
 Stabilization period: within 5 minutes after switch-on
 Working temperature: 0°...60°C
 Storage temperature: -10°...85°C
 Protection: IP40 (front panel only)
 EL safety: EN 61010-1, A2
 Dielectric strength: 2,5 kVAC per 1 min test between supply and input
 Insulation resistance: for pollution degree II, measuring cat. III
 AC power supply > 600 V (PI), 300 V (DI)
 DC power supply, input > 300 V (PI), 150 V (DI)
 EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



ORDER CODE

OM 45PM		-		□ □ □	
Power supply	230 VAC/50 Hz	1			
	12...24 VDC, uninsulated	2			
Measuring range	0...5 mA		A		
	0...20 mA		B		
	4...20 mA		C		
	±2 V		D		
	±5 V		E		
	±10 V		F		
	on request		Z		
Display color	red			1	
	green			2	

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.