

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

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 ($\pm 10\%$).

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

TECHNICAL DATA

INPUT

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

TK: 100 ppm/°C
Accuracy: ±0,15 % of range + 1 digit
Rate: 1,2/2,5/5/10 measur/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

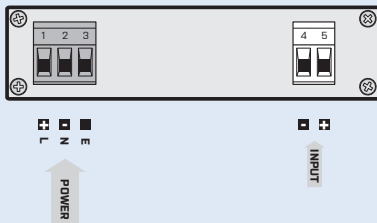
Material: Noryl GFN2 SE1, incombustible UL 94 V-1
Dimensions: 98 x 24 x 100 mm [w x h x d]
Panel cutout: 90,5 x 21,5 mm [w x h]

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 2,5 mm²
Stabilization period: within 15 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		
Display color	on request		Z		
	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.