

PROCESS MONITORS

OM 36PM



- **3 1/2 digit projection**
- **$\pm 2/\pm 5/\pm 10$ V**
- **0...5/20 mA, 4...20 mA**
- **Size of DIN 96 x 48 mm**
- **Power supply 230 VAC**

Extension

Excitation • Analogue output • Power supply: 24 VAC, 110 VAC, 9...32 VDC

Description

The OM 36PM model is a 3 1/2 digit panel process monitor designed for direct projection of analogue signals in required units with great accuracy and stability.

Operation

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

Calibration

Contingent corrections of display projection for both limit values of the input signal may be performed by trimmers under the front panel (approx 10 %) (e.g. 4...20 mA \Rightarrow projection 0.0...150.0)

Options

Excitation is suitable for feeding of sensors and transmitters. It is isolated, with continuously adjustable value in the range of 2...24 VDC.

Analogue outputs will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer several types of current or voltage non-isolated outputs. The analogue output value corresponds with the input signal.

Technical data

MEASURING RANGE

	Impedance/Max. drop
0...5 mA	< 260 mV
0...20 mA	< 260 mV
4...20 mA	< 260 mV
±2 V	1 MOhm
±5 V	1 MOhm
±10 V	1 MOhm

PROJECTION

Display:	±1999, red or green 7-segment LED, digit height 14 mm
Decimal point:	adjustable - by shorting link under the front panel
Brightness:	adjustable - by potentiometer under the front panel

INSTRUMENT ACCURACY

Tempco:	100 ppm/°C
Accuracy:	±0,1 % of range (applies for full range of the projection)
Rate:	1,2/2,5/5/10 measurements/s
Overload capacity:	10x (t < 100 ms), 2x (long-term)
Calibration:	at 25°C and 40 % r.h.

ANALOGUE OUTPUTS

Type:	non-isolated, analogue output corresponds with the input signal
Non-linearity:	0,3 % of range
Tempco:	100 ppm/°C
Rate:	response to change of value < 100 ms
Voltage:	0...2 V, 0...5 V, 0...10 V
Current:	0/4...20 mA (compensation of conduct up to 600 Ohm)

EXCITATION

Adjustable:	2...24 VDC/50 mA, isolated
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POWER SUPPLY

24/110/230 VAC, 50/60 Hz
12...24 VDC/150 mA (without excitation and analogue output)
8...32 VDC/max. 300 mA, (24 VDC/max. 150 mA), isolated

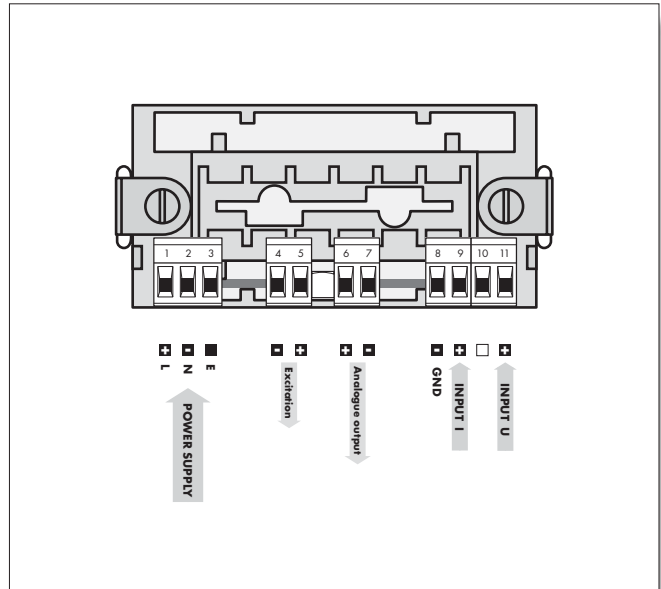
MECHANIC PROPERTIES

Material:	Noryl GFN2 SE1, incombustible UL 94 V-I
Dimensions:	96 x 48 x 110 mm
Panel cut-out:	92 x 45 mm

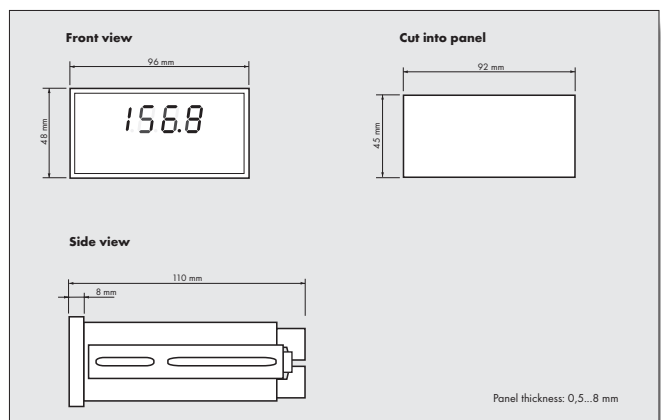
OPERATING CONDITIONS

Connection:	connector terminal board, conductor section up to 2,5 mm ²
Stabilization period:	within 15 minutes after switch-on
Working temperature:	0°...60°C
Storage temperature:	-10°...85°C
Covering:	IP42, upon request IP64 (front panel only)
Construction:	safety class I
Electrical safety:	EN 61010-1, A2
Overvoltage category:	for pollution degree II III. - instrument power supply (300 V) II. - input, output, excitation (300 V)
EMC:	EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

