

OMM 370PM



- **3 3/4 digit programmable projection**
- **0...2/5/10 V**
- **0...20 mA/4...20 mA**
- **Simple comparator**
- **Size of DIN 72 x 24 mm**
- **Power supply 10...30 V AC/DC**

Description

The OMM 370PM model is a small 3 3/4 digit panel programmable process monitor designed for direct projection of analogue signals in required units.

The instrument is based on an 8-bit controller with precise A/D converter, that secures high accuracy, stability and easy operation of the instrument.

Standard functions

Programmable display projection

Setting manual, optional projection on the display may be set for both limit values of the input signal in „CM“, e.g.: 4...20 mA ⇒ projection 35.5...380.0

Projection -999...3999

Digital filter

Radius of insensitiv. band of suppressed change of measured value

External control

Hold display/instrument blocking

Lock control keys blocking

Output

Limit relay with switching contact,
The limit has both adjustable hysteresis and optional delay of the switch-on. Reaching the limit is signalled by LED and at the same time by the switch-on of the relevant relay.

Operation

The instrument is set and controlled by four control keys located on the front panel. All programmable settings of the instrument are realised in two adjusting modes.

Configuration menu (hereinafter referred to as CM) is protected by an optional number code and contains complete instrument setting

User menu may contain arbitrary programming settings defined in „CM“ with another selective restriction (see, change)

All programmable parameters are stored in the EEPROM memory (they hold even after the instrument is switched off). The measured units may be projected on the display.

Technical data

MEASURING RANGE	Impedance/Max. drop	
0...20 mA	< 400 mV	Input I
4...20 mA	< 400 mV	Input I
0...2 V	1 MOhm	Input U
0...5 V	1 MOhm	Input U
0...10 V	1 MOhm	Input U

PROJECTION

Display: -999...3999, red or green 7-segment LED, digit height 9,1 mm
 Decimal point: adjustable - in Configuration menu
 Brightness: adjustable - in Configuration/User menu

INSTRUMENT ACCURACY

Tempco: 60 ppm/°C
 Accuracy: $\pm 0,15\%$ of range (applies for full range of the projection)
 Rate: 1,3 - 2,5 - 5 - 10 - 20 - 40 measurements/s
 Overload capacity: 10x ($t < 30$ ms), 2x (long-term)
 Watch-dog: reset after 1,2 s
 Function: Hold/Lock (upon contact)
 Digital filter - adjustable in Configuration menu
 Calibration: at 25°C and 40 % r.h.

COMPARATOR

Type: digital, adjustable in programming mode, contact switch-on < 30 ms
 Limit: -999...3999
 Hysteresis: 0...999
 Delay: 0...99,9 s
 Outputs: relay with switching contact (48 VAC/30 VDC, 3 A)

POWER SUPPLY

10...30 V DC, max. 140 mA, (24 V/45 mA), isolated
 12...28 V AC, max. 160 mA, (24 V/110 mA), isolated

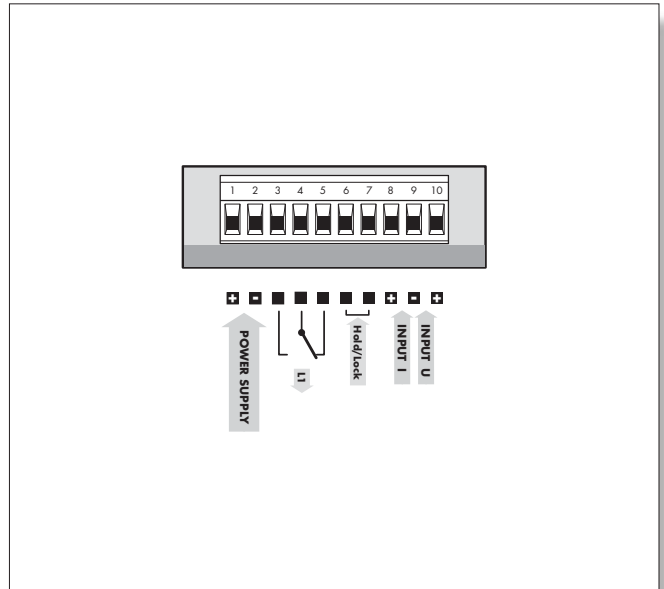
MECHANIC PROPERTIES

Material: Noryl GFN2 SE1, incombustible UL 94 V-I
 Dimensions: 72 x 24 x 106 mm
 Panel cut: 68 x 22,5 mm

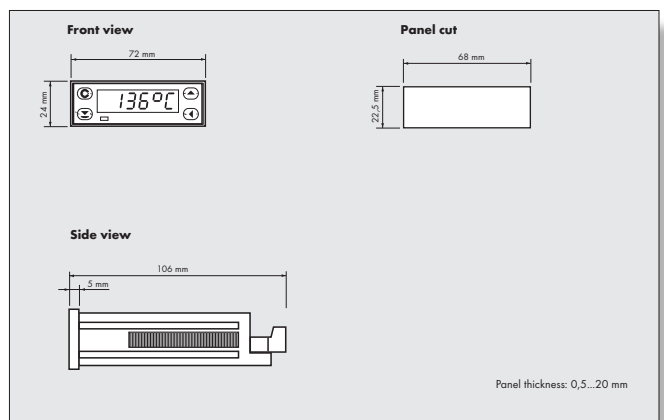
OPERATING CONDITIONS

Connection: connector terminal board, conductor section up to 2,5 mm²
 Stabilization period: within 15 minutes after switch-on
 Working temperature: 0°...60°C
 Storage temperature: -10°...85°C
 Covering: IP42 (front panel only)
 Electrical safety: EN 61010-1, A2
 Overvoltage category: for pollution degree II
 EMC: II - instrument power supply, input, relay output (300 V)
 EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 55022, A1, A2

Connection



Dimensions



Order code

OMM 370PM - x

Display color
 1: red
 2: green