

## OMM 370RTD



- **3 3/4 digit projection**
- **Pt 100/Pt 1 000/Ni 1 000/ Ni 10 000**
- **-99,9° ... 399,9° C**
- **Simple comparator**
- **Size of DIN 72 x 24 mm**
- **Power supply 8...32 V AC/DC**

### Description

The OMM 370RTD model is a 3 3/4 digit small panel programmable thermometer for sensors Pt 100/Pt 1 000/Ni 1 000/Ni 10 000. The instrument is based on an 8-bit  $\mu$ -controller with precise A/D converter, that secures high accuracy, stability and easy operation of the instrument.

### Standard functions

#### Programmable input

Type Pt 100/Pt 1 000/Ni 1 000/Ni 10 000  
Projection -99.9° ... 399.9° C

#### Compensation

Conduct for 2-wire connection  
Probes internal connection (conduct resistance in the measuring head)

#### Digital filters

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 limits 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 five 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 display shows the measured units (°C).

## Technical data

### MEASURING RANGE

Pt 100/1 000	-99,9°...399,9°C
Ni 1 000/10 000	-30°...250°C
Type:	100/1 000 Ohm platinum link (3850 ppm/°C) 100/1 000 Ohm platinum link (3923 ppm/°C) Ni 1 000/10 000, (5000/6180 ppm/°C)

Connection: 2, 3 or 4 wire

### PROJECTION

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

### INSTRUMENT ACCURACY

Tempco: 50 ppm/°C  
 Accuracy:  $\pm 0,15\%$  of range  
 Rate: 1,3 - 2,5 - 5 - 10 - 20 - 40 measurements/s  
 Resolution: 0,1°C  
 Watch-dog: reset after 1,2 s  
 Function: Hold/Lock (upon contact)  
 Digital filter - adjustable in Configuration menu  
 at 25°C and 40 % r.h.

### COMPARATOR

Type: digital, adjustable in programming mode, contact switch-on < 10 ms  
 Limit 1: -999...3999  
 Hysteresis: 0...999  
 Delay: 0...99,9 s  
 Outputs: relay with switching contact (48 VAC/30 VDC, 3 A)

### POWER SUPPLY

8...32 V AC/DC, max. 100 mA, isolated

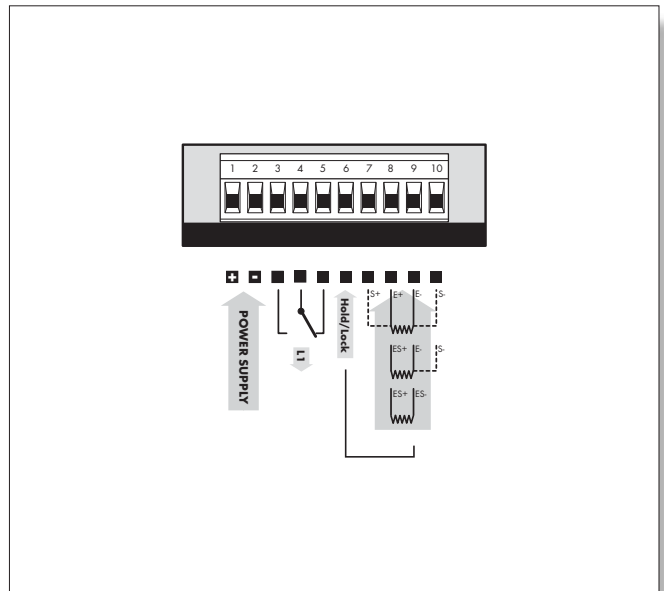
### MECHANIC PROPERTIES

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

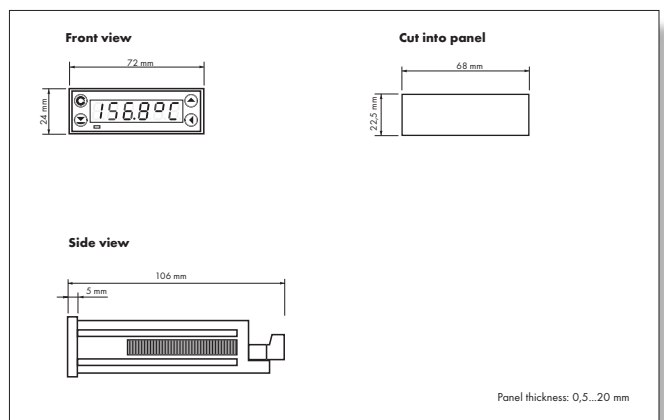
### OPERATING CONDITIONS

Connection: connector terminal board, conductor section up to 2,5 mm<sup>2</sup>  
 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  
 II - instrument power supply, input, relay output (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

