



## THERMOMETER FOR PT/NI SENSORS

- 4-digit projection
- Input: Pt 100/500/1 000  
Ni 1 000/10 000  
0...3900  $\Omega$
- Digital filters, Linearization
- Size of DIN 51,5 x 29,5 mm
- Power supply 10...30 V DC/24 VAC

### OPERATION

The instrument is set and controlled by two buttons located on its the body.

Standard equipment is the OM Link USB interface, which, when using the control program, allows you to edit and archive all device settings and to update firmware.

All settings are stored in FLASH memory (they hold even after the power is turned off).

# OMM 335RTD



OMM 335RTD is a 4-digit thermometer for resistive Pt/Ni sensors.

The instrument is based on a microcontroller and an A/D converter, which ensures good accuracy and easy operation of the instrument.

The 22 mm cross-section of the circular instrument body allows its convenient mounting into mosaic and signalling panels.

**OMM 335RTD**  
THERMOMETER FOR PT/NI

### STANDARD FUNCTIONS

#### PROGRAMMABLE PROJECTION

Selection: of input type and measuring range

Projection: -999...9999

#### COMPENSATION

Of conduct: automatic (3-wire) or manual in menu (2-wire)

Of conduct in probe: internal connection (conduct resistance in measuring head)

#### FUNCTIONS

Linearization: non-linear signals can be linearized by the means of a linearization table (up to 50 points)

## TECHNICAL DATA

### INPUT

|                         |             |                                |               |
|-------------------------|-------------|--------------------------------|---------------|
| <b>Number of inputs</b> | 1           |                                |               |
| <b>Pt</b>               | <b>Type</b> | optional in configuration menu |               |
|                         |             | EU > 100/1 000 Ω, 3 850 ppm    | -50°...450°C  |
|                         |             | US > 100 Ω, 3 920 ppm/°C       | -50°...450°C  |
|                         |             | RU > 100 Ω, 3 910 ppm/°C       | -200°...450°C |
| <b>Connection</b>       | 2 or 3-wire |                                |               |
| <b>Ni</b>               | <b>Type</b> | optional in configuration menu |               |
|                         |             | Ni 1 000, 5 000 ppm/°C         | -50°...250°C  |
|                         |             | Ni 1 000, 6 180 ppm/°C         | -200°...250°C |
|                         |             |                                |               |
| <b>Connect</b>          | 2 or 3-wire |                                |               |
| <b>OHM</b>              | <b>Type</b> | optional in configuration menu |               |
|                         |             | 0...390 Ω                      |               |
|                         |             | 0...3 900 Ω                    |               |
| <b>Connection</b>       | 2 or 3-wire |                                |               |

### PROJECTION

**Display:** -999...9999, single color 7-segment LED  
**Digit height:** 14 mm  
**Display color:** red or green  
**Decimal point:** adjustable - in menu  
**Brightness:** adjustable

### INSTRUMENT ACCURACY

**TC:** 50 ppm/°C  
**Accuracy:** ±0,15% of range + 1 digit (for projection -999...1999)  
**Rate:** 0,5...100 measurement/s  
**Overload capacity:** 2x; 10x (t < 30 ms)  
**Resolution:** 0,1°C  
**Line compensation:** max. 30 Ω  
**Linearization:** linear interpolation in 50 points (only via OM Link) (only via OM Link)  
**OM Link:** company communication interface for operation, setting and update of instruments  
**Watch-dog:** reset after 500 ms  
**Calibration:** at 25°C and 40 % r.h.

### POWER SUPPLY

**Range:** 24 V DC/AC, ±10 %, PF ≥ 0,4, I<sub>STP</sub> < 45 A/1,1 ms  
 10...30 VDC/24 VAC, ±10 %, PF ≥ 0,4, I<sub>STP</sub> < 45 A/1,1 ms, isolated  
**Consumption:** < 0,2 W/0,2 VA

### MECHANIC PROPERTIES

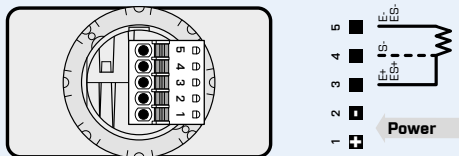
**Material:** PA66, incombustible UL 94 V-1  
**Dimensions:** 51,5 x 29,5 x 66 mm (w x h x d)  
**Panel cutout:** Ø 22,5 mm

### OPERATING CONDITIONS

**Connection:** connector terminal blocks, section < 1,3 mm<sup>2</sup>  
**Stabilization period:** within 5 minutes after switch-on  
**Working temperature:** -20°...60°C  
**Storage temperature:** -20°...85°C  
**Protection:** IP65 (front panel only)  
**El. safety:** EN 61010-1, A2  
**Dielectric strength:** 700 VAC per 1 min test between supply and input  
**Insulation resistance:** for pollution degree II, measuring cat. II.  
 power supply > 250 V (PI)  
**EMC:** EN 61326-1

PI - Primary insulation, DI - Double insulation

## CONNECTION



## ORDER CODE

### OMM 335RTD

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|                      |                                    |          |           |
|----------------------|------------------------------------|----------|-----------|
| <b>Power supply</b>  | 10...30 V AC/DC                    | <b>0</b> |           |
|                      | 24 V AC/DC                         | <b>2</b> |           |
| <b>Display color</b> | red                                | <b>1</b> |           |
|                      | green                              | <b>2</b> |           |
| <b>Specification</b> | customized version, do not fill in |          | <b>00</b> |

Basic configuration of the instrument is indicated in bold.