



THERMOMETER FOR PT/NI SENSORS

- 4-DIGIT PROJECTION
- INPUT: Pt 100/500/1 000
Ni 1 000/10 000
0...3900 Ω
- DIGITAL FILTERS, LINEARIZATION
- SIZE OF DIN 50,5 X 28,5 MM
- POWER SUPPLY 10...30 V DC/24 VAC

OMM 335RTD

OMLINK

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 signaling panels.

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THERMOMETER FOR PT/NI

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).

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Selection: of input type and measuring range

Projection: -999...9999

COMPENSATION

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

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

FUNCTIONS

Linearization: linear interpolation in 50 points (only via OM Link)

NEW

TECHNICAL DATA

INPUT

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

TK: 50 ppm/°C
Accuracy: ±0,15% of range + 1 digit
 (for projection -999...1999)
Rate: 0,5...100 measur./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)
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_{STP} < 45 A/1,1 ms
 10...30 VDC/24 VAC, ±10 %, PF ≥ 0,4, I_{STP} < 45 A/1,1 ms, isolated
Consumption: < 0,2 W/0,2 VA

MECHANIC PROPERTIES

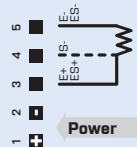
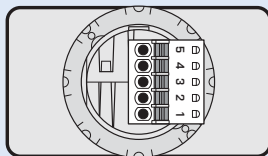
Material: PA66, incombustible UL 94 V-1
Dimensions: 50,5 x 28,5 x 66 mm [w x h x d]
Panel cutout: ø 22,5 mm

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,3 mm²
Stabilization period: within 15 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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Power supply	10...30 V AC/DC	0	
	24 V AC/DC	2	
Display color	red		1
	green		2
Specification	customized version, do not fill in		00

Basic configuration of the instrument is indicated in bold.