



Data Sheet
OMM 335RTD

Distributed by



[www. BristolInstruments.com](http://www.BristolInstruments.com)

Bristol Instruments
90 Canal Street, 4th Floor
Boston, MA 02114

Toll free
877-866-8500



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 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

Number of inputs	1		
Pt Type	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	
Connection	2 or 3-wire		
Ni Type	optional in configuration menu		
	Ni 1 000, 5 000 ppm/°C	-50°...250°C	
	Ni 1 000, 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		
Connection	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_{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

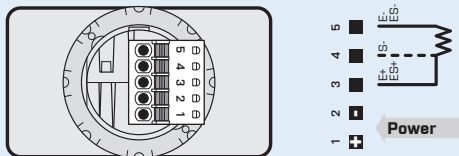
Material: PA66, incombustible UL 94 V-1
 Dimensions: 51,5 x 29,5 x 66 mm (w x h x d)
 Panel cutout: Ø 22,5 mm

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,3 mm²
 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 - - -

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.