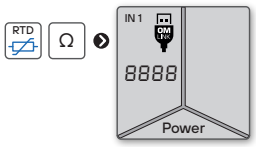
OMM 335RTD

- 4-digit projection
- Input Pt 100/500/1 000
  Ni 1 000/10 000
  0...3900 Ω
- Digital filters, Linearization
- Size of 51.5 x 29.5 mm, Ø 22 mm
- Power supply 10...30 VDC / 24 VAC

OMM 335RTD is a 4-digit thermometer for resistive Pt/Ni sensors.
The instrument is based on a microcontroller with ADC, 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.

THERMOMETER FOR Pt/Ni SENSORS



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
Wiring (RTD, OHM): automatic (3-wire) or manual in menu (2-wire)
Probes (RTD): internal wiring (resistance of conductors in the measuring head)

FUNCTIONS
Linearization: non-linear signal is converted by a 50-point linear interpolation

TECHNICAL DATA

INPUT

No. of inputs		1 The range is adjustable in the instrument menu	
OHM	Range	0...390 Ω 0...3.9 kΩ	
	Connection	2- and 3-wire	
RTD	Range	Pt 100/500/1 000, 3 850 ppm/°C Pt 100, 3 920 ppm/°C Pt 100, 3 910 ppm/°C	-50°...450°C -50°...450°C -200°...450°C
	Connection	2- and 3-wire	
Ni	Range	Ni 1 000, 5 000 ppm/°C Ni 1 000, 6 180 ppm/°C	-50°...250°C -200°...250°C
	Connection	2- and 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 - in menu

INSTRUMENT SPECIFICATION

TC	50 ppm/°C
Accuracy	±0.15 % of FS + 1 digit *above accuracies apply for projection 1999*
Rate	0.1...100 measurement/s
Overload capacity	10x (t < 30 ms), 2x
Compensation of conduct	< 30 Ω
Resolution	0.1°C
Linearization	linear interpolation in 50 points *setup only via OM Link*
OM Link	company communication interface for operation, setting and update of instruments (microUSB)
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 ms, 10...30 VDC / 24 VAC, ±10 %, PF ≥ 0.4, I_{STP} < 45 A / 1 ms, isolated
Consumption	< 0.2 W / 0.2 VA

MECHANIC PROPERTIES

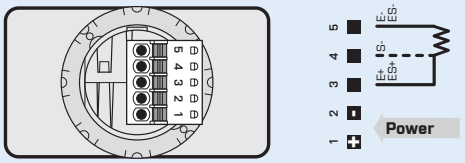
Material	PA66, incombustible UL 94 V-I, black
Dimensions	51.5 x 29.5 x 78 mm (w x h x d)
Panel cutout	Ø 22.5 mm

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 1.3 mm²
Stabilization period	within 5 minutes after switch-on
Working temperat.	-20°...60°C
Storage temperat.	-20°...85°C
Working humidity	< 95 % r.v., non condensing
Protection	IP65, front panel only
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	700 VAC for 1 min. between power supply and input
Insulation resist.*	for pollution degree II, measuring cat. III power supply > 250 V (PI)
EMC	EN 61326-1, Industrial area
Seismic qualification	IEC/IEEE 60980-344 Edition 1.0, 2020, par. 6, 9
Mechanical resistance	EN 60068-2-6 ed. 2:2008

* 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.