

RoHS
Compliant



Description

The instrument is based on a microcontroller and an A/D converter, which ensures good accuracy and easy operation of the instrument. The 22mm cross-section of the circular instrument body allows its convenient mounting into mosaic and signalling panels.

Features

- 4-digit projection
- Input: Pt 100/1000
Ni 1000Ω
- Digital filters, Linearization
- Size of DIN 51.5mm × 29.5mm
- Power supply 10 - 30V DC/24V AC

Projection

Display	: -999 to 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 to 1999)
Rate	: 0.5 to 100 measurements
Overload capacity	: 2x; 10x (t < 30ms)
Resolution	: 0.1°C
Line compensation	: max. 30Ω
Watch-dog	: Reset after 500 ms
Calibration	: At 25°C and 40 % r.h.

Power Supply

Range	: 24V DC/AC, ±10 %, PF ≥ 0.4, I _{STP} < 45 A/1.1 ms 10 to 30V DC/24V AC, ±10 %, PF ≥ 0.4, I _{STP} < 45 A/1.1 ms, isolated
Consumption	: < 0.2 W/0.2 VA

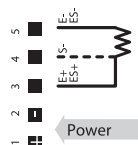
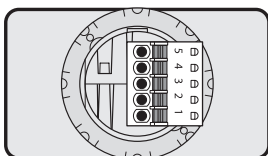
Mechanic Properties

Material	: PA66, incombustible UL 94 V-I
Dimensions	: 51.5mm × 29.5mm × 66mm (w × h × d)
Panel cutout	: Ø 22.5mm

Operating Conditions

Connection	: Connector terminal blocks, section < 1.3 mm ²
Stabilization period	: Within 5 minutes after switch-on
Working temperature	: -20° to 60°C
Storage temperature	: -20° to 85°C
Protection	: IP65 (front panel only)
El. safety	: EN 61010-1, A2
Dielectric strength	: 700V AC 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

Diagram



Part Number Table

Description	Part Number
4-Digit Temperature Display, 10-30V DC, Red	MP-335RTD-01
4-Digit Temperature Display, 24V AC, Red	MP-335RTD-21

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