

THERMAL RESISTANCE METER

Application:

The panel meter is suitable for measuring the thermal resistance.

Important features:

- Full digital operation (Icom System).
- LED display range: ± 9999 , unit marking by LED.
- Preset delivery or connecting to external device can be set (monlcom option).
- Automatic zero calibration.
- Plug in terminal blocks with screw.
- EMC compliance.



Illustration only.

Technical specifications:

Input:

- Thermal resistance input range: Pt100 -200 °C ... +850 °C
- Measuring current: 180 uA
- Measuring system: 4 wires
- Input insulation voltage: Cat. III. 1 kV (Test: 4300 V_{eff} 1 min)

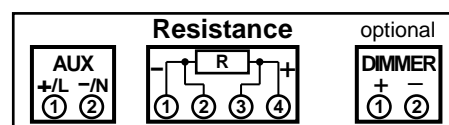
Display:

- Display colours: red (basic version), orange, yellow, green, blue, white LED
- Height of digits: 14 mm
- Brightness control: via dimming input on rear (optional)
- Dimmer input signal: 5V PWM, approx. 1 kHz
- Dimmer input isolation: Cat. III. 1 kV (Test: 4300 V_{eff} 1 min)
- Display update: 2 /s
- Accuracy: ± 1 % FS, ± 1 digit (20 %..120 % input range)
- Resolution: whole number value display °C

Other:

- Standards applied: IEC/EN 61010-1, IEC/EN 61326
- Auxiliary supply consumption: max. 2 W
- Wire cross-section of terminals: max. 2.5 mm²
- Working temperature: -10...+25...+60 °C
- Temperature coefficient: max. 100 ppm/°C
- Warm-up time: 15 min
- Storage temperature: -40...+80 °C
- Humidity: max. 85 %
- Vibration (acceleration): max. 2 g
- Dimension (HxWxD): 48 mm x 96 mm x 74 mm
- Case protection: from the front IP 40, from behind IP 20
- Case material: PC-GF
- Weight: approx. 0.3 kg

Connection diagram:

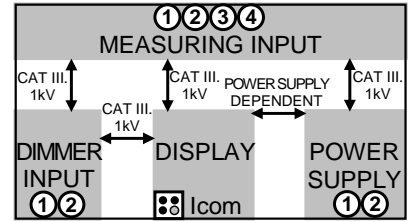


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Auxiliary Supply variations:

	(Voltage / Insulation)
5 V, 12 V, 24 V, 48 V DC $\pm 50\%$, converter	/ 1 kV
55...264 V, 47...440 Hz, and 72...370 V DC, converter	/ 3 kV
9...28 V DC	/ not isolated from display

Isolation scheme:



Ordering examples: (Input; Display: range, unit, colour; Auxiliary Supply)

CD40-96p-TR _ Input: -200...+850 °C Pt100 _ Display: -200...+850 °C, yellow _ Aux: 55..264 V AC converter
 CD40-96p-TR _ Input: 0...+600 °C Pt100 _ Display: 0...600 °C, red, dimmable _ Aux: 24 V DC converter

On request for extra charge special ranges (Input, Display, Auxiliary Supply) are possible.

Outline and cut-out dimensions:

