

RMS CURRENT METER

Application:

The panel meter is suitable for measuring the AC true RMS current.

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:

- Nominal input current range (sinusoidal): ... from 0...0.06 A to 0...5 A AC
- Input measuring range: up to 120 % of the nominal value
- Input drop out voltage: 60 mV (at nominal current, max. 0.3 VA)
- Input frequency range: 45...440 Hz
- Crest factor (I_{peak}/I_{rms}): max. 2.0
- Input insulation voltage: Cat. III. 1 kV (Test: 4300 V_{eff} 1 min)

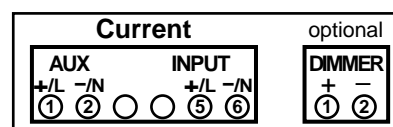
Display:

- 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: ±0.2 % FS, ±1 digit (20 %..120 % input range)

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. 200 ppm/°C
- Warm-up time: 15 min
- Storage temperature: -40...+80 °C
- Humidity: max. 85 %
- Vibration (acceleration): max. 2 g
- Dimension (HxWxD): 24 mm x 72 mm x 102 mm
- Case protection: from the front IP 40, from behind IP 20
- Case material: PC-GF
- Weight: approx. 0.3 kg

Connection diagram:

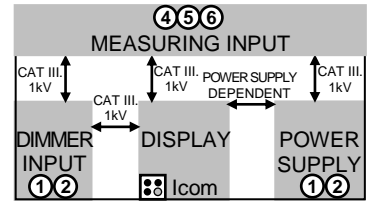


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Auxiliary Supply variations:

	(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)

CD40-72v-AEF _ Input: 0...5 A AC RMS _ Display: 0...10.00 kA, red _ Aux: 55..264 V AC converter

CD40-72v-AEF _ Input: 0...1 A AC RMS _ Display: 0...50.00 A, green, dimmable _ Aux: 24 V DC converter

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

Outline and cut-out dimensions:

