

## 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)

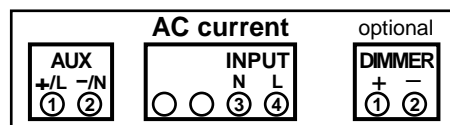
##### Display:

- 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: .....  $\pm 0.2$  % FS,  $\pm 1$  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 mm<sup>2</sup>
- 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): ..... 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:

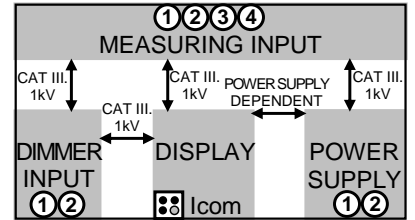


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### Auxiliary Supply variations:

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

CD40-96p-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:

