CD40-72v-AEF

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 (monIcom 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 (Ipeak/Irms): ..... max. 2.0
- Input insulation voltage: ..... Cat. III. 1 kV (Test: 4300 V_{eff} 1 min)

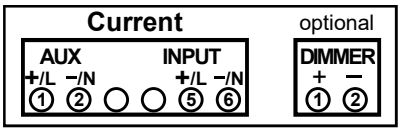
Display:

- 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 mm^2
- Working temperature: ..... -10…+25…+60 ºC
- Temperature coefficient: ..... max. 200 ppm/ºC
- Warm-up time: ..... 15 min
- Storage temperature: ..... -40…+80 ºC
- 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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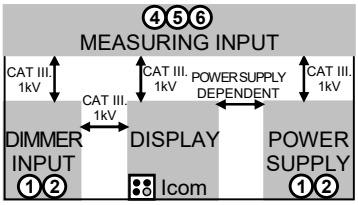
Auxiliary Supply variations:

	(Voltage / Insulation)
5 V, 12 V, 24 V, 48 V DC ±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:

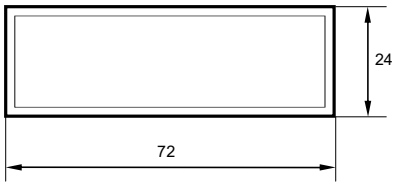


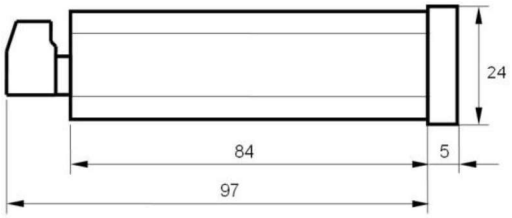
Ordering examples: (Input; Display: range, unit, colour; Auxiliary Supply)

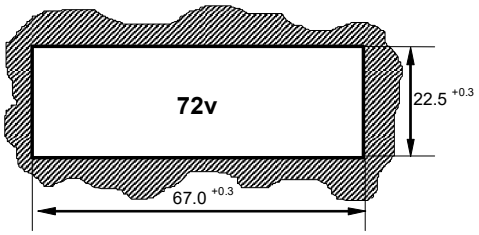
CD40-72v-AEF _ Input: 0…5 A AC RMS _ **Display:** 0…10.00 kA, red **_ Aux:** 55..264 V AC converter
CD40-72v-AEF _ Input: 0…1 A AC RMS _ **Display:** 0…50.00 A, green, dimmable **_ Aux:** 24 V DC converter

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

Outline and cut-out dimensions:







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