

## RMS VOLTAGE METER

### Application:

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

#### 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: (at external power supply)

- Nominal input voltage range (sinusoidal): ... from 0...5 V to 0...600 V AC
- Input measuring range: ..... up to 120 % of the nominal value
- Input resistance: ..... 1 Mohm
- Input frequency range: ..... 45...440 Hz
- Crest factor (U<sub>peak</sub>/U<sub>rms</sub>): ..... max. 1.2
- Input insulation voltage: ..... Cat. III. 1 kV (Test: 4300 V<sub>eff</sub> 1 min)

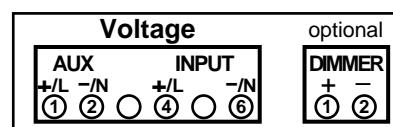
##### Display:

- 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<sub>eff</sub> 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<sup>2</sup>
- 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): ..... 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:

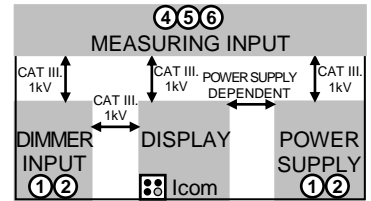


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### Auxiliary Supply variations:

	(Voltage / Insulation)
<b>5 V, 12 V, 24 V, 48 V DC ±50 %, converter</b>	/ 1 kV
<b>55...264 V, 47...440 Hz, and 72...370 V DC, converter</b>	/ 3 kV
<b>9...28 V DC</b>	/ not isolated from display
At 55...264 V AC input voltage range, self powered version is also available.	

### Isolation scheme:



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

**CD40-72v-VEF \_ Input:** 0...110 V AC RMS \_ **Display:** 0...100.0 kV, red \_ **Aux:** 55..264 V AC converter  
**CD40-72v-VEF \_ Input:** 0...500 V AC RMS \_ **Display:** 0...500.0 V, 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:

