

DC VOLTAGE METER

Application:

The panel meter is suitable for measuring the DC 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: from $0 \dots \pm 0.06 \text{ V}$ to $0 \dots \pm 600 \text{ V DC}$
- Input measuring range: up to 120 % of the nominal value
- Input resistance: 1 Mohm
- Input insulation voltage: Cat. III. 1 kV (Test: $4300 \text{ V}_{\text{eff}} 1 \text{ min}$)

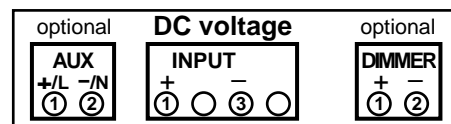
Display:

- 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: $4300 \text{ V}_{\text{eff}} 1 \text{ min}$)
- Display update: 2 /s
- Accuracy: $\pm 0.2 \% \text{ FS}, \pm 1 \text{ digit}$ (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: $-10 \dots +25 \dots +60 \text{ }^\circ\text{C}$
- Temperature coefficient: max. 100 ppm/ $^\circ\text{C}$
- Warm-up time: 15 min
- Storage temperature: $-40 \dots +80 \text{ }^\circ\text{C}$
- 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:

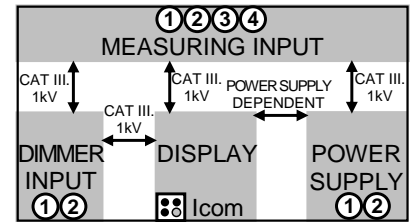


DC VOLTAGE METER

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
At 72...370 V DC input voltage range, self powered version is also available.	

Isolation scheme:



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

CD40-96p-VDC _ Input: 0...±110 V DC _ **Display:** 0...±100.0 kV, red _ **Aux:** 55..264 V AC converter

CD40-96p-VDC _ Input: 0...±500 V DC _ **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:

