CD40-48v-VAC

AC VOLTAGE METER

Application:

The panel meter is suitable for measuring the AC average voltage. In case of a regular sine wave the display is equal to the effective value.

Important features:

· Full digital operation (Icom System).

· LED display range: 9999.

· 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.

Connection diagram:

Voltage				
AUX			**INPUT**	
+/L	**−/N**		**−/N**	**+/L**
①	②	○	④	⑤

Technical specifications:

Input:

· 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…65 Hz

· Input insulation voltage: .... Cat. III. 1 kV (Test: 4300 V_{eff} 1 min)

Display:

· Display colours: ……………....…… red (basic version), yellow, green LED

· Height of digits: .... 9 mm

· 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 ºC

· Temperature coefficient: .... max. 100 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 48 mm x 78 mm

· Case protection: .... from the front IP 40, from behind IP 20

· Case material: .... PC-GF

· Weight: ……………………... approx. 0.2 kg
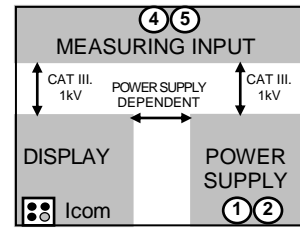
CD40-48v-VAC
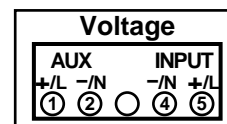
AC VOLTAGE METER

Auxiliary Supply variations:

5 V, 12 V, 24 V, 48 V DC ±50 %, **converter**
9…28 V DC

(Voltage / Insulation)
/ 1 kV
/ not isolated from display

Isolation scheme:

④⑤
MEASURING INPUT

CAT III.
1kV

POWER SUPPLY
DEPENDENT

CAT III.
1kV

DISPLAY

⠿ Icom

POWER
SUPPLY

①②

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

CD40-48v-VAC _ **Input:** 0…110 V AC _ **Display:** 0…100.0 kV, red _ **Aux:** 24 V DC converter
CD40-48v-VAC _ **Input:** 0…500 V AC _ **Display:** 0…500.0 V, green_ **Aux:** 9…28 V DC (not isolated)

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

Outline and cut-out dimensions:

48v

24

48

24

60

73

5

48v

21.5 $^{+0.3}$

44.0 $^{+0.5}$