

## DC CURRENT METER

### Application:

The panel meter is suitable for measuring the DC current.

#### Important features:

- Full digital operation (Icom System).
- LED display range:  $\pm 9999$ .
- 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: ..... from  $0 \dots \pm 0.02$  A to  $0 \dots \pm 5$  A DC
- Input measuring range: ..... up to 120 % of the nominal value
- Input drop out voltage: ..... 60 mV (at nominal current)
- Input insulation voltage: ..... Cat. III. 1 kV (Test:  $4300 V_{eff}$  1 min)

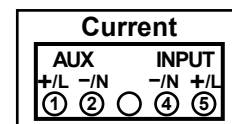
##### Display:

- Display colours: ..... red (basic version), yellow, green LED
- Height of digits: ..... 9 mm
- Display update: ..... 2 /s
- Accuracy: .....  $\pm 0.2$  % 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.  $2.5 \text{ mm}^2$
- Working temperature: .....  $-10 \dots +25 \dots +60$  °C
- Temperature coefficient: ..... max. 200 ppm/°C
- Warm-up time: ..... 15 min
- Storage temperature: .....  $-40 \dots +80$  °C
- 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

#### Connection diagram:



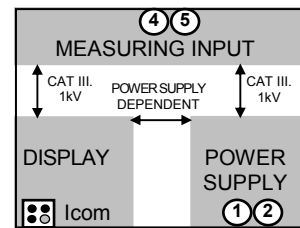
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### Auxiliary Supply variations:

**5 V, 12 V, 24 V, 48 V DC  $\pm 50\%$ , converter  
9...28 V DC**

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

### Isolation scheme:



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

**CD40-48v-ADC \_ Input: 0... $\pm 5$  A DC \_ Display: 0... $\pm 10.00$  kA, red \_ Aux: 24 V DC converter**

**CD40-48v-ADC \_ Input: 0... $\pm 20$  mA DC \_ Display: 0... $\pm 50.00$  A, 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:

