



Supplier of Control Instrumentation to the South African Electrical Industry

METERS FOR AC VOLTAGE OR CURRENT WITH A MOVING COIL AND A RECTIFIER



CQ 0x07

CQ 0507



Meters with a moving coil and a rectifier are intended for measurement of AC currents or voltages in the frequency range from 40 Hz to 65 Hz (higher frequency ranges on request) where low consumption of the meter is required. The meters measure a mean value of rectified current or voltage. The scale is expressed in rms values at sine form of the measured quantity. Distortion or deviation from the sine form for more than 1% entails additional errors. The scale is interchangeable. The accuracy class is 1.5.

| TYPE | CQ 0507 | CQ 0407 | CQ 0307 | CQ 0207 | CQ 0107 | CQ 207* | CQ 2507 | CQ 2407 | CQ 2307 | CQ 2207** | CQ 2107 |
|---|-----------|---------|---------|---------|-----------|---------|------------|---------|---------|-----------|-----------|
| Front frame (mm) | 45 x 45 | 48 x 48 | 72 x 72 | 96 x 96 | 144 x 144 | 96 x 96 | 45 x 45 | 48 x 48 | 72 x 72 | 96 x 96 | 144 x 144 |
| Cutting for mounting (mm) | - | 45 x 45 | 68 x 68 | 92 x 92 | 138 x 138 | 92 x 92 | - | 45 x 45 | 68 x 68 | 92 x 92 | 138 x 138 |
| | scale 90° | | | | | | scale 240° | | | | |
| Scale length (mm) | 41 | 41 | 63 | 95 | 140 | 95 | 71 | 71 | 113 | 155 | 235 |
| RATING | | | | | | | | | | | |
| 0-100 μ A...600 μ A | • | • | • | • | • | • | • | • | • | • | • |
| 0-1 mA...10 mA | • | • | • | • | • | • | • | • | • | • | • |
| xA/1A, xA/5A ¹⁾ (max. 7.5 A) | • | • | • | • | • | • | • | • | • | • | • |
| 0-2.5 V...500 V | • | • | • | • | • | • | • | • | • | • | • |
| 0-600 V | • | • | • | • | • | • | • | • | • | • | • |

*CQ 3207 4-stage selector switch is built in the meter for measurement of current in three individual phases. At current switch-over the circuit is not interrupted.

** Overloads of short duration on page 104.

AMMETERS: RATINGS

μ A: 100, 150, 250, 400, 500, 600

mA: 1, 1.5, 2.5, 4, 5, 6, 10

Voltage drop approx. 1.5 V

A/Voltage drop (V) x/1 A - 0.1 V, x/5 A - 0.03 V

VOLTMETERS: RATINGS

V: 2.5, 4, 6, 10, 15, 25, 40, 60, 100, 150, 250, 400, 500, 600

- characteristic resistance 1 k Ω /V