

**AVO[®]**
DCM300E

- 0,01 mA resolution
- EMC & EN61010-1 compliance
- 30 mA, 300 mA, 30 A & 300 A range
- 40 mm jaw size
- Analogue Bargraph & Digital Display

Earth Leakage Clamp Meter

DESCRIPTION

The new AVO[®] DCM300E is designed mainly to check earth leakage currents. However, the upper range will measure currents of up to 300 A a.c. making it a totally versatile instrument capable of taking most current measurements.

The instrument has four ranges; 30 mA, 300 mA, 30 A and 300 A with a minimum resolution of 0,01 mA on the 30 mA range.

For those hard to read measurements, where there are problems of accessibility or poor lighting, a data hold feature has been incorporated, to aid measurement.

To save battery life when not in use the instrument has an automatic power off feature and will turn itself off if it hasn't taken any readings over a 10 minute period. This totally new clampmeter development ensures that the latest safety design standards EN61010-2-32 and EMC requirements are met. Safety is enhanced with the incorporation of a tactile barrier. Extra insulation has been used around the jaw specifically to reduce the possibility of causing a short circuit between live conductors, as well as protecting the operator from accidentally getting an electric shock.

SIMPLY CLAMP ON

With existing installations especially, by far the simplest and easiest method of checking an installation is with a clamp-on current meter. The clamp meter can be used to locate the fault within the circuit without it being necessary to disassemble the wiring.

APPLICATION

A typical application for the clamp meter would be the measurement of earth leakage current in a circuit where the RCD keeps tripping out. The measured result will quickly identify whether the earth leakage current present is excessive causing the RCD to trip, or that the RCD itself is faulty. Standing earth leakage can be the result of various undetected faults in the installation such as cable insulation deterioration, cable damage or the entry of moisture into areas where there are exposed terminals or fittings.

The instrument is pocket sized, light weight, rugged and easy to use, making it an ideal choice for the electrical industry.

FEATURES

- 0,01 mA resolution for measuring earth leakage currents
- 300 A range for standard current measurements
- Analogue Bargraph Display for trending
- Handguard designed for operator safety
- Pocket sized and lightweight

SAFETY

EN61010-1 and EN61010-2-032 300 V phase to earth and 500 V phase to phase CAT III or 600 V CAT II double insulated
EMC EN5008-1 and EN50082-1

Measuring Method: Dual integration mode
Measuring Function: Leakage current and load current
Display: 3,5 digit L.C.D.; max. reading of 3200
Range: 0-30 mA/300 mA/30 A/300 A (50/60Hz)
Ranging: 2 manual ranges
Accuracy specified at operating temperature: 23°C ± 5°C, 80% RH max.

Range	Min. Resolution	Accuracy
30/300 mA	0,01/0,1 mA	±1,2% rdg ±5 dgt
30/300 A	0,01/0,1 A	0-200 A: ±1,2% rdg ±5dgt
		200-250 A: ±3,0% rdg ±5dgt
		250-300 A: ±5,0% rdg ±5dgt

Jaw Opening Capability: 40 mm
Over Range Indication: "OL" mark on L.C.D.
Maximum Indication: 3200
Low Battery Indication: 2,5 V - 2,7 V; "+-" mark on L.C.D.
Data Hold Indication: "DH" mark on L.C.D.
Sampling Time: Approx. 2 times/sec. (digital display)
 Approx. 12 times/sec. (bargraph display)
Auto Power Off: The meter is set to power off mode approx. 10 minutes after the power switch on
Limitation of Circuit Voltage: Less than a.c. 600 V
Withstanding Voltage: a.c. 3700 V/1 minute max. (between the core of CT and the unit housing)
Operating Temperature: 0 – 40 °C <80% RH (non-condensing)
Storage Temperature: -10 – 60 °C <70% RH (non-condensing)
Power Supply: 2 x 1,5 V button cells LR44 or SR 44
Power Consumption: Approx. 5 mW
Battery Life: Approx. 50 hrs. (LR44)
Size: 64 (W) x 176 (H) x 23 (D) mm
 2,5 (W) x 7 (H) x ,9 (D) inches approx.
Weight: Approx. 125 g (5 lb. approx.)

ORDERING INFORMATION

Item (Qty)	Order Code
Earth Leakage Clamp Meter	DCM300E
2 Batteries (2 x LR44)	
Carrying Case	
Instruction Manual	

