MMC850

Multi-core AC digital clamp meter



- Single, two or three core cable measurement
- Flat or round section cables
- No need to split wires
- Cable centralising clamp
- Backlit display
- 50Hz and 60Hz supplies
- IEC 1010-2-032, CAT III 600 V safety protection

DESCRIPTION

The NEW Megger MMC850 offers a unique solution to current measurement in multi-core cables, without the need to split cores. Simply clamp the MMC850 to a multicore cable and read the current flowing.

Conventional current clamp meters have been available for many years and are an accepted method of non-intrusive current measurement. However these instruments can only measure current in a single core cable, requiring multi-core cables to be split before a core can be measured.

Unlike conventional clamp meters, the MMC850 has a complex array of Planer magnetic sensor coils to calculate the current flowing in the conductors of multicore cables with either 2 or 3 cores, and in either flat or round section cable, up to 100 A. The convenience and potential time saving from using the multi-core clamp is considerable.

A single button switches the clamp between multi-core and single core operation, ensuring the MMC850 is the only clamp meter you need to carry.

The MMC850 has a tough and lightweight clamp head, allow good access to awkward locations and cables.

The inner jaw clamp centralises the cable to be measured ensuring best accuracy.

The MMC850 is suitable for supply frequencies from 45Hz to 400Hz. Current measurement to 200 A on single core and 100 A on multi-core cables is possible, with a resolution to 0.1 A, so covering the majority of power applications including Military/Aviation.

SAFETY

The tough case is manufactured in ABS and the contoured design fits comfortably in the hand with a positive finger guard.

The MMC850 meets the requirements of IEC1010-2-032, Cat III 600 V, and is rated as safe for connection and disconnection to live conductors.

APPLICATIONS

Use it anywhere where you want to measure current without breaking a circuit or splitting cables. The MMC850 can also be used in place of traditional clamp meters, when commissioning, or for general maintenance work in electrical machinery and installations.

In many applications, the indication of voltage alone is insufficient to verify that an appliance is working.

For instance, having fitted a new thermostat to a water heater, a neon may indicate voltage, but the element may be open-circuit. With the MMC850 you can verify and measure the current simply by clamping round the outer cable sheath.

When fault-finding, a voltmeter may indicate a voltage at the terminals of a single-phase motor, but not help diagnose the problem any further. With the MMC850, the distinction may be made between a high current potentially indicating a shorted winding or locked rotor and an open-circuit fault, such as a disconnected termination or burnt-out winding.

OPTIMISED CABLE TYPES

The advanced measuring techniques used by the MMC850 enables the measurement of current in 1-, 2- or 3-core cables of most configurations. It is optimised for the most commonly encountered cable types (see table), and will give an approximation of the current in others.

Optimised Cables

European

H05VV-F (3-core) 1.5mm²

H05VV-F (3-core) 2.5mm²

A05VVH2-RU 2.5mm²

A05VVH2-RU 4.0mm²

A05VVH2-RU 6.0mm²

H05VV-F (2-core) 0.75mm²

H03VV-F (2-core) 0.75mm²

T4 6004 (Flat Triple) 2.5mm²

T4 6004 (Flat Triple) 3.5mm²

T4 6004 (Flat Triple) 10mm²

T4 6004 (Flat Triple) 16mm²

6193Y (Flat Triple) 1.5mm²

6193Y (Flat Triple) 2.5mm²

6193Y (Flat Triple) 4.0mm²

North American

1277 CVTC Wire 12 AWG

1277 CVTC Wire 10 AWG

1277 CVTC 2 Wire Flat D10

1277 CVTC 2 Wire Flat D14

1277 CVTC 2 Wire Flat D16

1277 CVTC 2 Wire Flat D18

1277 CVTC 2 Wire 10 AWG

1277 CVTC Wire 14 AWG

1277 CVTC Wire 18 AWG

1277 CVTC Wire 16 AWG

1277 VNTC 3 Wire 10 round

1277 VNTC 3 Wire 18 round

1277 CVTC 3 Wire 16 AWG

1277 VNTC 3 Wire 16 round

1277 VNTC 3 Wire 12 round

62 SO 2 wire round 14 AWG

62 SO 3 wire round 14 AWG

1277 CVTC 3 Wire 12 AWG

UF-B Unshielded 12 AWG

UF-B Unshielded 10 AWG

NM-B Unshielded 14 AWG

SPT-2 Insulated 18 AWG

SPECIFICATIONS

(at 23°C±5°C : < 80% RH)

ac Amps

Mode Range

Resolution

Accuracy

Frequency

Response

Single-Core Mode

200 A 0.1 A

1.5% + 3 d

45 hz - 1 kHz

Multi-Core Mode

100 A 0.1 A

5 % + 10 d

45 hz - 400 Hz

Frequency

45Hz to 400Hz

Battery

Single PP3 9V Alkaline

Battery life

180hrs typical

Main jaw capacity

13mm (0.51")

Inner jaw capacity

22mm (0.87")

Display

 $3^{1}/_{2}$ digit 2000 count

Refresh

3 times / sec

Operating temp

0°C to +40°C

Storage temp

-20°C to +60°C

Altitude

2000m

Dimensions

H 227 mm x W 94 mm x D44.5mm (8.94" x 3.7" x 1.75")

Safety

IEC1010-2-032 CATIII 600 V

EMC

EN61326: 1997 Am:1998 Am:2001

The MMC850 is supplied complete with carry case and user guide.

ORDERING INFORMATION

	ONDERING
Item (Qty)	Order Code
MMC850 Multicore Clampmeter	MMC850-EN

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