

Megger 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

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 100A. The convenience and potential time saving from using the multi-core clamp is considerable.

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

The MMC850 replaces the established Flexiclamp200 multi-core meter, with a greatly improved and toughened clamp head that is half the size that the original Megger Flexiclamp, allowing improved access to awkward locations and cables.

The open 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 200A on single core and 100A on multi-core cables is possible, with a resolution to 0.1A.

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 and is rated to Cat III 600V.

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.

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

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	North American	
H05VV-F (3-core) 1.5mm ²	1277CVTC Wire 12AWG	1277 VNTC 3 Wire 18 round
H05VV-F (3-core) 2.5mm ²	1277CVTC Wire 10AWG	1277 CVTC 3 Wire 16AWG
A05VVH2-RU 2.5mm ²	1277 CVTC 2 Wire Flat D10	1277 VNTC 3 Wire 16 round
A05VVH2-RU 4.0mm ²	1277 CVTC 2 Wire Flat D14	1277 VNTC 3 Wire 12 round
A05VVH2-RU 6.0mm ²	1277 CVTC 2 Wire Flat D16	62 SO 2 wire round 14AWG
H05VV-F (2-core) 0.75mm ²	1277 CVTC 2 Wire Flat D18	62 SO 3 wire round 14AWG
H03VV-F (2-core) 0.75mm ²	1277CVTC 2 Wire 10AWG	1277 CVTC 3 Wire 12AWG
T4 6004 (Flat Triple) 2.5mm ²	1277CVTC Wire 14AWG	UF-B Unshielded 12AWG
T4 6004 (Flat Triple) 3.5mm ²	1277CVTC Wire 18AWG	UF-B Unshielded 10AWG
T4 6004 (Flat Triple) 10mm ²	1277CVTC Wire 16AWG	NM-B Unshielded 14 AWG
T4 6004 (Flat Triple) 16mm ²	1277 VNTC 3 Wire 10 round	SPT-2 Insulated 18AWG
6193Y (Flat Triple) 1.5mm ²		
6193Y (Flat Triple) 2.5mm ²		
6193Y (Flat Triple) 4.0mm ²		

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	0degC to +40degC			
Storage temp	-20degC to +60degC			
Altitude	2000m			
Dimensions	H	W	D	
	227mm	94mm	44.5mm	
	8.94"	3.7"	1.75"	
Safety	IEC1010-2-032 CATIII 600V			
EMC	EN61326: 1997 Am:1998 Am:2001			

Ordering Information

MMC850 Multicore Clampmeter

MMC850-EN