

Flexiclamp

Multi-Core Digital Clampmeter



- Measures current in 2- or 3-core cable
- No need to split cables
- Check current anywhere in installation
- Micro-processor controlled for dependability and accuracy

DESCRIPTION

The Megger® FlexiClamp does what you always thought clampmeters should do – measure current in multi-core cables and power cords without the need to split them.

The original methods of taking current measurements by inserting a shunt resistor or using a current transformer have the disadvantage of having to break the circuit conductor. And with traditional clamp-on current meters, measurements can only be made on single conductors, requiring covers to be moved to gain access. Even then, it is often awkward to get sufficient cable free to reach the jaws of the clamp.

With the FlexiClamp, there is now:–

- no need to remove covers
- no need to split cables

All that is needed is to place the jaws around the outside sheath of the cable. With the FlexiClamp, current can be measured in 2- or 3- wire, round, flat or twin and earth cables to 40 A, with a resolution of 0,1 A. Single-wire measurements up to 199,9 A mean that the FlexiClamp can also function as a 'traditional' clampmeter

The FlexiClamp is optimised for specific line frequencies and cable types, and is available in both 50 Hz and 60 Hz variants.

SAFETY

With a robust ABS case, the FlexiClamp is designed to keep the user safe, meeting IEC1010-2-032 to installation category III at 1000 V on cables. As part of this designed-in safety, a tactile barrier provides a safe working distance from live conductors for the operators hand.

APPLICATIONS

Use it anywhere where you want to measure current without breaking a circuit or splitting cables. The FlexiClamp can also be used in place of traditional clampmeters, 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 FlexiClamp 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 FlexiClamp, 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.

FEATURES AND BENEFITS

- Current measurement in 1, 2 or 3 conductor cable
- Use on flat or round cables
- Measures up to 200 A on single-core cables
- Measures up to 40 A on multi-conductor cables
- Jaws accommodate cables up to 1" diameter
- Convenient data hold facility
- Auto Power-off to conserve battery life

SPECIFICATION

Measurement Ranges

Single-wire mode 0 – 199,9 A

2- or 3-wire mode 0 – 40,0 A

Resolution

0,1 A in both modes

Accuracy at 22°C

Single-wire mode 2% of reading ±2 digits

2- or 3-wire mode:

flat cable 5% of reading ±2 digits

twin & earth cable 5% of reading ±2 digits

round cable 12% of reading ±2 digits

Jaw Capacity

25 mm (1") max.

Power Supply

1 x 9 V alkaline battery (IEC 6-LR61/PP3 or equivalent)

Battery Life

50 hours continuous use

Auto-power off after 5 minutes

Display

3 1/2 digit L.C.D. with data hold and low battery indication

Update every 0,5s

Temperature range

0°C to 40°C

Humidity range

0% to 92% RH non-condensing

Safety

Complies to IEC 1010-2-032 and EN61010-2-032 Cat. III 300 V phase to earth (bare wire) and 1000 V (insulated cable)

Dimensions

110 x 230 x 45 mm (4 1/3" x 9" x 1 3/4")

Weight

285 g (10 oz approx.)

EMC

In accordance with IEC61326 including Amendment No.1.

OPTIMISED CABLE TYPES

The advanced measuring techniques used by the FlexiClamp 200 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 appropriate table), and will give an approximation of the current in others.

50 Hz Variant: European Cable Types

	Conductor Area / mm ²									
	0.5	0.75	1	1.25	1.5	2.5	4	6	10	16
A05 VVH2-R/U, A05 VVH4-R/U			●		●	●	●	●	●	●
A05VVU-U/R (2- & 3-core)					●	●				
H03VV-F (2- & 3-core), H03VVH2-F	●	●								
H05VV-F (2- & 3-core)	●	●	●	●	●	●				
H05VVH2-F (2-core)			●							
T3 6004 (Round, 2- & 3-core)					●	●				
T3 6004 (Flat & Flat Triple)			●		●	●	●	●	●	●
T3 6004 (Flat T & E)			●		●	●	●	●	●	●
T3 6004 (Flat, Flat T & E)					●	●				

60 Hz Variant: North American Cable Types

	Conductor Gauge (AWG)				
	10	12	14	16	18
Type 62: HPN (2-wire)				●	
Type 62: HPN (3-wire)		●	●		
Type 62: HPN-2 (2-wire)				●	
Type 62: SO (2- & 3-wire)			●		
Type 62: SP-1, SPT-1 (2- & 3-wire)					●
Type 62: SP-2 (3-wire), SPT-2 (2- & 3-wire)				●	●
Type 62: SP-3 (3-wire), SPT-3	●	●	●	●	■
Type 1277: CVTC (2- & 3-wire)	●	●	●	●	●
Type 1277: VNTC (2- & 3-wire round, 2-wire Flat D)	●	●	●	●	●

■ SPT-3 (2-wire)

ORDERING INFORMATION

Item (Qty)	Order No.
Multi-core Digital Clampmeter	FlexiClamp 200/50 Hz
Multi-core Digital Clampmeter	FlexiClamp 200/60 Hz
Included Accessories	
Carrying Pouch with belt loop	8101-101
User Guide	6172-215
9 V Alkaline Battery (PP3/IEC6-LR61)	25511-840

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