



## Current probe 100A / 200mA

The M3 100A / 200mA current probe has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC current. Using the latest transformer technology, this probe can measure currents from 0.5 A to 120 A over a frequency range of 30Hz to 10kHz.



### Electrical Characteristics

Current Range  $I_N$ .....: 100  $A_{RMS}$   
Measuring Range.....: 0.5 A to 120  $A_{RMS}$   
Output Sensitivity.....: 2mA / A  
Load Impedance (with 10 Ohm load).....:  $\leq 10$  Ohm  
Conductor Position Sensitivity.....: 0.5% @ 50/60Hz  
Error due to adjacent conductor .....:  $\leq 15$ mA / A @ 50 Hz  
Frequency Range .....: 30 Hz to 10 kHz  
Temperature Coefficient.....: 0.015% / °C  
Working Voltage for input and output circuits .....: 600V on naked conductors  
(see Safety Standards section)

### Accuracy

Primary current	0.5 to 10A	10 to 50A	50 to 100A
Accuracy (of rdg)	$\pm 3\% + 0.5$ mA	$\pm 2\% + 0.5$ mA	$\pm 1\% + 0.5$ mA
Phase shift (typ)	Not specified	3.5°	2.6°

### General Characteristics

Maximum Conductor Size.....: 15 mm diameter  
Output Connection.....: 4mm safety sockets  
Operating Temperature Range.....: -10 to +55 °C  
Storage Temperature Range.....: -40 to +70°C  
Operating Humidity.....:  $\leq 85\%$   
Weight.....: 165 g

**Reference conditions:** Temperature : +18°C to 26 °C, humidity: 20 to 75% RH, sinusoidal current: 48 to 65Hz, distortion factor: < 1%, DC current: none, DC magnetic field: 40 A/m earth's magnetic field, alternating magnetic field: none, proximity of external conductor: none, primary conductor: centred in the aperture, load impedance:  $\leq 1\Omega$  for current output.

## Safety Standards

IEC61010-1:2010  
IEC61010-2-032:2012  
IEC61010-2-031:2008

600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on **uninsulated conductors** is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1 kHz.

## EMC Standards

EN 61326 :1998

## Dimensions

en mm

