



## Current Probe H16 100A / 5A

The H16 100A / 5A current probe has been designed for use with multimeters, recorders, power analysers, safety testers etc. for accurate non intrusive measurement of AC current. Using the latest transformer technology, the H16 100A / 5A can measure currents from 5 A to 120 A over a frequency range of 30Hz to 10kHz.



### Electrical Characteristics

Current Range  $I_N$  ..... : 100  $A_{RMS}$   
Measuring Range ..... : 5 A to 120  $A_{RMS}$   
Output Sensitivity ..... : 50 mA / 1A  
Precision Impedance ..... :  $\leq 10$  mOhm  
Conductor Position Sensitivity ..... : 0.5% @ 50Hz  
Error due to adjacent conductor ..... :  $\leq 5$ mA / A @ 50 Hz  
Phase Shift at 2 kHz @ 10A ..... : 1°  
Frequency Range ..... : 30 Hz to 10 kHz  
Temperature Coefficient ..... : 0.01% / °C  
Working Voltage (see Safety Standards section) ..... : 600 V  $AC_{RMS}$  or DC

### Accuracy (load 10 mOhm)

Primary Current	5 to 10A	10 to 50A	50 to 120A
Accuracy (of rdg)	2% $\pm 5$ mA	1.5%	1%
Phase Error (typ)	7.5°	7°	5.5°

### General Characteristics

Maximum Conductor ..... : 68 mm diameter  
Output Connection ..... : 4 mm safety socket  
Operating Temperature Range ..... : -10 to +55 °C  
Storage Temperature Range ..... : -40 to +70°C  
Operating Humidity ..... :  $\leq 85\%$   
Weight ..... : 1800 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

