



Current Probe H16 1000A / 5A

The H16 1000A / 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 1000A / 5A can measure currents from 1 A to 1200 A over a frequency range of 30Hz to 10kHz.



Electrical Characteristics

Current Range I_N	: 1000 A _{RMS}
Measuring Range.....	: 1 A to 1200 A _{RMS}
Output Sensitivity	: 5 mA / A
Load Impedance	: ≤ 1 Ohm
Conductor Position Sensitivity.....	: 0.5% @ 50Hz
Error due to adjacent conductor	: ≤ 5mA / A @ 50 Hz
Phase Shift at 2 kHz @ 10A	: 2.5°
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

Primary current	1 to 10 A	10 to 100A	100 to 500A	500 to 1200A
Accuracy (of rdg)	2.5% +1 mA	1.5%	1%	0.5%
Phase error (typ)	Not specified	2°	1°	0.5°

General Characteristics

Maximum Conductor Size	: 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	: ≤ 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_{RMS}, Category III, Pollution Degree 2

Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326 :1998

Dimensions

