



## Current Probe Model S 500A / 5A

The S 500A / 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 S 500A / 5A can measure currents from 10 A to 600 A over a frequency range of 30Hz to 10kHz.



### Electrical Characteristics

Current Range .....	: 500 A <sub>RMS</sub>
Continuous Measuring Range .....	: 5A to 600 A <sub>RMS</sub>
Output Sensitivity .....	: 10 mA / A
Load Impedance (ohm).....	: ≤ 2 Ohm
Conductor Position Sensitivity.....	: 0.5% @ 50Hz
Error due to adjacent conductor .....	: ≤ 2mA / A @ 50 Hz
Frequency Range .....	: 30 Hz to 10 kHz
Temperature coefficient .....	: 0.01% / °C
Working Voltage (see Safety Standards section) .....	: 600 V AC <sub>RMS</sub> or DC

### Accuracy

Primary Current	5 to 50 A	50 to 100 A	100 to 500 A
Accuracy (of rdg)	2.5%	1%	1%
Phase Error	Non spécifié	1°	1°

### General Characteristics

Maximum Conductor Size .....	: 50 mm diameter
Output Connection .....	: 4mm safety sockets
Operating Temperature Range .....	: -10 to +55 °C
Storage Temperature Range .....	: -40 to +70 °C
Operating Humidity .....	: 15% to 85% (non condensing)
Weight.....	: 620 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:  $\geq 1\text{M}\Omega$ , <100pF for voltage 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

