



## Current probe P32 1000-2000-3000A / 1A

The P32 1000A-2000-3000A / 1A 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, the P32 1000-2000-3000A / 1A probe can measure currents from 1A to 3600A over a frequency range of 30Hz to 10kHz.



### Electrical Characteristics

Current Ranges $I_N$ .....	: 1000 / 2000 / 3000 A <sub>RMS</sub>
Measuring Range.....	: 1 A to 3600 A <sub>RMS</sub>
Output Sensitivity .....	: 1 mA / A (1000 A)
.....	: 0.5 mA / A (2000 A)
.....	: 0.33 mA / A (3000 A)
Load Impedance .....	: ≤ 10 Ohm
Conductor Position Sensitivity.....	: 1.5% @ 50Hz
Error due to adjacent conductor .....	: ≤ 6mA / A @ 50 Hz
Phase Shift at 2 kHz @ 10A .....	: 3°
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

#### 1000A

Primary Current	1 to 10A	10 to 300A	300 to 1000A
Accuracy (of rdg)	2.5% +5 mA	2%	1%
Phase Error (typ)	Not specified	2.5°	1°

#### 2000A

Primary Current	100 to 500A	500 to 1000A	1000 to 2000A
Accuracy (of rdg)	1.5%	1%	0.75%
Phase Error (typ)	1°	1°	0.75°

#### 3000A

Primary Current	500 to 1000A	1000 to 2000A	2000 to 3600A
Accuracy (of rdg)	1%	0.75%	0.5%
Phase Error (typ)	1°	0.75°	0.5°

## General Characteristics

Maximum Conductor Size .....	: 82 mm diameter
Output Connection .....	: 4 mm socket (other possibilities)
Operating Temperature Range .....	: -10 to +55 °C
Storage Temperature Range .....	: -40 to +70°C
Operating Humidity .....	: ≤ 85%
Weight.....	: 1900 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

