



Current probe P32.UE 3000A / 1V

The P32.UE 3000A / 1V 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.UE 3000A / 1V probe can measure currents from 10A to 3600A over a frequency range of 30Hz to 10kHz.



Electrical Characteristics

Current Range I_N : 3000 A_{RMS}
Measuring Range..... : 10 A to 3600 A_{RMS}
Output Sensitivity..... : 0.333 mV / A
Load Impedance..... : $\geq 10 \text{ k}\Omega$
Conductor Position Sensitivity..... : 0.5% @ 50Hz
Error due to adjacent conductor..... : $\leq 6\text{mA} / \text{A} @ 50 \text{ Hz}$
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	10 to 100A	100 to 300A	300 to 1000A	1000 to 3600A
Accuracy (of rdg)	2.5% +2 mV	2.5%	1%	0.5%
Phase Error (typ)	Not specified	3°	1°	0.5°

General Characteristics

Maximum Conductor Size..... : 82 mm diameter
Output Connection..... : 4 mm socket
Operating Temperature Range..... : -10 to +55 °C
Storage Temperature Range..... : -40 to +70°C
Operating Humidity..... : $\leq 85\%$
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: $\geq 1\text{M}\Omega$, <100pF for voltage 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

