



Current probe H32.U 30-300-3000A / 3V

The H32.U 30-300-3000A / 3V 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 H32.U 30-300-3000A / 3V probe can measure currents from 1A to 3000A over a frequency range of 30Hz to 10kHz.



Electrical Characteristics

Current Range I_N	: 30 / 300 / 3000 A _{RMS}
Measuring Range.....	: 1 A to 3000 A _{RMS}
Output Sensitivity	: 100 mV / A (30 A)
.....	: 10 mV / A (300 A)
.....	: 1 mV / A (3000 A)
Load Impedance	: ≥ 100 kOhm
Conductor Position Sensitivity.....	: 1.5% @ 50Hz
Error due to adjacent conductor	: ≤ 6 mA / A @ 50 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

30A

Primary current	1 to 5A	5 to 10A	10 to 30A
Accuracy	2%	2%	1%
Phase shift	Not specified	10°	5°

300A

Primary current	10 to 30A	30 to 100A	100 to 300
Accuracy	2%	1%	1%
Phase shift	Not specified	1°	0.5°

3000A

Primary current	100 to 300A	300 to 1000A	1000 to 3000A
Accuracy	2%	1%	1%
Phase shift	1°	1°	1°

General Characteristics

Maximum Conductor Size : 72 mm diameter
Output Connection : 4 mm 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: ≥1MΩ, <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

