

AC Current Probe

Model ACP 3000 H32

Part no.: P-00.710.1

The ACP 3000 H32 current probe has been designed for use with multimeters, recorders, power analysers, safety testers for accurate non intrusive measurement of AC current.

Using the latest transformer technology, the ACP 3000 H32 can measure currents up to 3000A over a frequency range of 40Hz to 5kHz.



SAFETY WARNING: This note must be read in full. Any operations on live conductors can be dangerous. The operator is expected to be fully aware of all necessary electrical safety regulations and procedures. Safe operation is this responsibility. It is up to the user to ensure that the equipment is at all times in its original safe conditions.

Electrical Characteristics

Current Range I_N	: 3000A AC_{RMS}
Measuring Range	: 5A to 3600A
Output Sensitivity	: 1mV/A
Load Impedance.....	: >10kOhm
Accuracy (for 0.1 I_N to 1.2 I_N @50Hz)	: 1%
Phase shift (for 0.1 I_N to 1.2 I_N @50Hz)	: 1°
Accuracy at 1kHz	: 500A at 1%
Frequency range	: 40Hz to 5kHz
Protection class	: 600V Cat.III according to EN61010-1
Dielectric strength.....	: 5.5kV 50Hz 1min
Dimensions	: 145 x 333 x 49mm

General Characteristics

Maximum Conductor Size	: Ø70 /100x45...120x37mm
Output Connection	: 4mm safety sockets
Operating Temperature Range.....	: 0 to +50°C
Storage Temperature Range.....	: -20 to +70°C
Operating Humidity.....	: ≤ 85%
Housing colour	: Blue
Weight.....	: 1880g

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.

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Connection Details

Pin	Function
S1	Output +
S2	Output -

Safety Standards

EN61010-1
EN61010-2-032

600 V_{RMS}, Category III, Pollution Degree 2

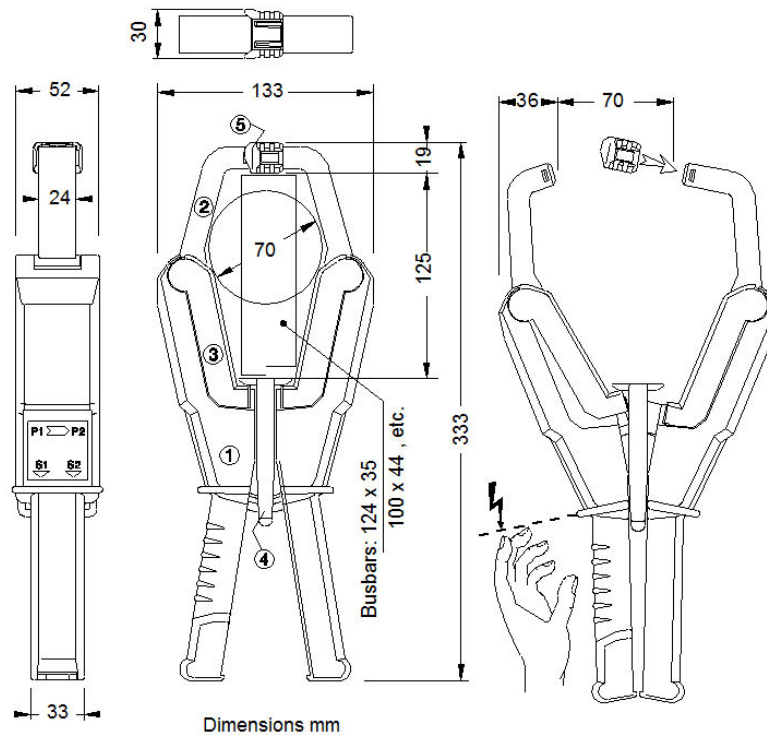
Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326

Dimensions

in mm



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