

Current probe TR2510B

(UT model M3.UB 10A/1.5V)

The M3.UB 10A/1.5V 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 M3.UB 10A/1.5V can measure currents from 100 mA to 30A over a frequency range of 40Hz to 5kHz.



Electrical Characteristics

Current Range I_N : 10 A AC_{RMS}
Measuring Range : 100mA to 30A_{RMS}
Output Sensitivity : 150mV / A
Load Impedance : > 100 kOhm
Conductor Position Sensitivity : < 0.5% @ 50/60Hz
Phase Shift at 2 kHz @ 10A : ± 1 degree
Frequency Range : 40 Hz to 5 kHz
Temperature Coefficient : 0.015% / °C
Working Voltage (see Safety Standards section) : 600 V AC_{RMS} or DC

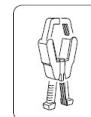
Accuracy

Primary Current	100mA to 1A	1A to 5A	5A to 30A
Accuracy (of rdg)	$\pm 1\% + 2\text{mV}$	$\pm 1\% + 1.5\text{mV}$	$\pm 1\% + 1.5\text{mV}$
Phase Error (typ)	not specified	$\sim 1^\circ$	$\sim 1.5^\circ$

General Characteristics

Maximum Conductor Size : 15 mm diameter
Output Connection : 3 m cable with D01 conn.
Operating Temperature Range : -10 to +55 °C
Storage Temperature Range : -40 to +70 °C
Operating Humidity : 15% to 85% (non condensing)
Weight : 180 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, alternative 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
IEC61010-031: 2008

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

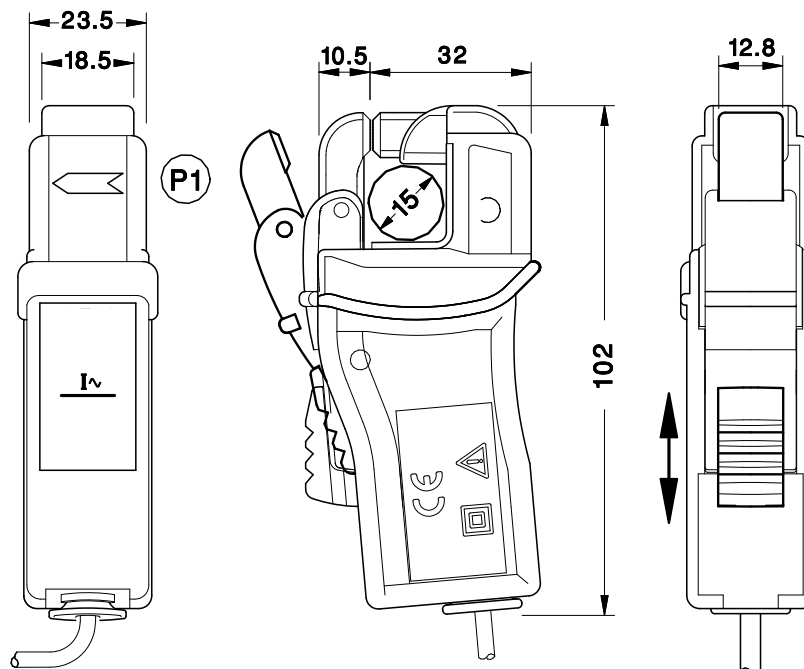
Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326:1998

Dimensions

in mm



Special note: the actual probe is equipped with 3m shielded black cable 3 conductors with connector D01PB406MRT (Hypertronics). The probe is of blue color

Specifications subject to change without notice