

current probe M3.UB 10A/1V

The M3.UB 10A/1V 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/1V can measure currents from 10 mA to 10A over a frequency range of 40Hz to 5kHz.



Electrical Characteristics

Current Range I_N	: 10 A AC _{RMS}
Measuring Range.....	: 10mA to 12A _{RMS}
Output Sensitivity	: 100mV / A
Load Impedance	: > 1 MOhm
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

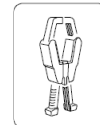
Accuracy

Primary Current	10mA to 0.3A	0.3A to 1A	1A to 12A
Accuracy (of rdg)	±2%±0.1mV	±1.5%	±1%
Phase Error (typ)	not specified	~4°	~3°

General Characteristics

Maximum Conductor Size	: 15 mm diameter, bus bar 15 x 17mm
Output Connection	: cable FM2R 2m
Operating Temperature Range	: -10 to +55 °C
Storage Temperature Range	: -20 to +70 °C
Operating Humidity	: 15% to 85% (non condensing)
Weight.....	: 165 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: ≥1MΩ, <100pF for voltage output.



Safety Standards

IEC61010-1: 2010

IEC61010-2-032: 2019

IEC61010-031: 2015 + A1:2018

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

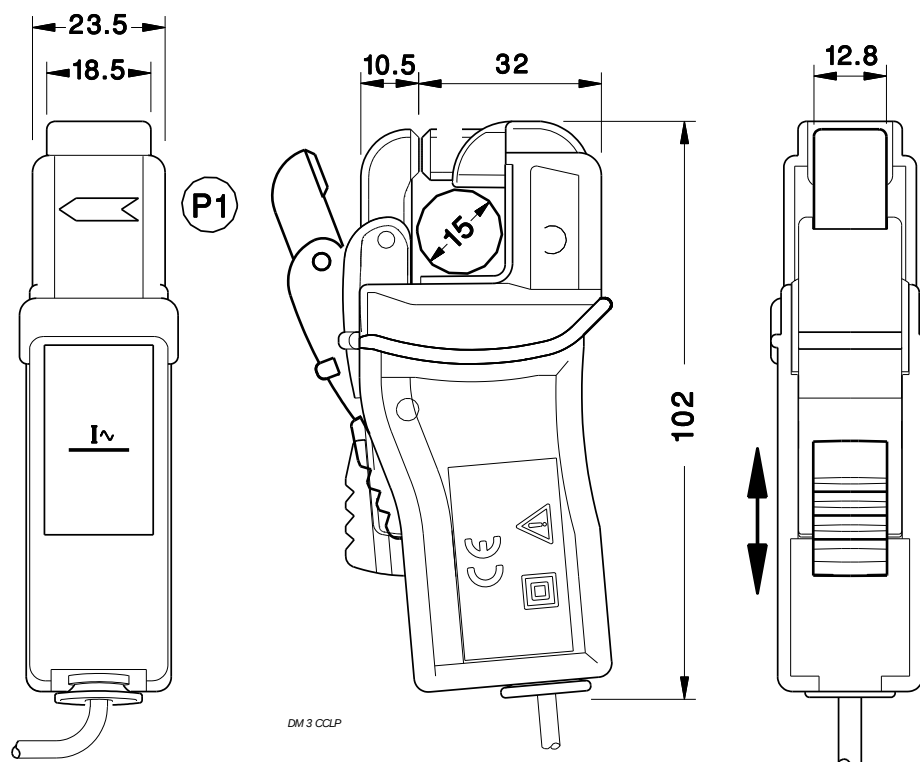
Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326:2013

Dimensions

in mm



Specifications subject to change without notice