



## Current probe M3.UB 20A / 1V

The M3.UB 20A / 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 M3.UB 20A / 1V can measure currents from 50mA to 20A over a frequency range of 30Hz to 10kHz.

The very small head facilitates the insertion of the probe in places where ease of access is of crucial importance.



### Electrical Characteristics

Current Range  $I_n$ ..... : 20 A  $AC_{RMS}$   
Measuring Range..... : 50mA to 20A $_{RMS}$   
Output Sensitivity..... : 50mV / A  
Load Impedance..... : > 1 MOhm  
Conductor Position Sensitivity..... : < 0.5% @ 50/60Hz  
Frequency Range..... : 30 Hz to 10 kHz  
Temperature Coefficient..... : 0.015% / °C  
Working Voltage (see Safety Standards section)..... : 600 V  $AC_{RMS}$  or DC

### Accuracy

Primary Current	10mA to 50mA	50mA to 100mA	100mA to 20A
Accuracy (of rdg)	5%	2%	1%
Phase shift (typ)	Not specified	3°	2°

### General Characteristics

Maximum Conductor Size..... : 15 mm diameter, bus bar 15 x 17mm  
Output Connection..... : Safety sockets 4mm  
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:  $\geq 1\text{M}\Omega$ , <100pF for voltage output.

## Safety Standards

IEC61010-1:2010  
IEC61010-2-032:2012  
IEC61010-2-031:2008

600 V<sub>RMS</sub>, Category III, Pollution Degree 2

Use of the probe on **uninsulated conductors** is limited to 600 V AC<sub>RMS</sub> or DC and frequencies below 1 kHz.

## EMC Standards

EN 61326 :1998

## Dimensions

in mm

