

Current Probe MX 10 A - 100 A / 1V

The MX current probe has been designed for use with scopemeters, multimeters, recorders, power analysers and safety testers for accurate, non intrusive, measurement of AC and DC currents.

Using the latest technology, the MX can measure currents from 10 mA to 100A over a frequency range from DC to 50kHz.



Electrical Characteristics

Current Range I_N : 10 A and 100 A
 : with LED overload indicator
 Measuring Range..... : 0.01 A to 150 A_{peak}
 Output Sensitivity : 10 mV/A and 100 mV/A
 Precision Load Impedance : 1 Mohm \leq 50pF
 Conductor Position Sensitivity : < 1% @ 50/60Hz
 Error due to adjacent conductor..... : \leq 15 mA / A @ 50Hz
 Frequency Range : DC to 50 kHz
 Temperature Coefficient : 0.2% / °C
 Working Voltage (see Safety Standards section) : 1000 V cat III

Accuracy 100A range

Primary Current (@ 50 Hz)	500 mA to 3 A	3 to 10 A	10 to 100 A
Accuracy (of rdg)	$\pm 1.5\% \pm 0.5$ mV	$\pm 1.5\%$	$\pm 1.0\%$
Phase Error (typical)	0.2°	0.2°	0.1°

Accuracy 10A range

Primary Current (@ 50 Hz)	10 mA to 0.1 A	0.1 to 1 A	2 to 10 A
Accuracy (of rdg)	$\pm 3\% \pm 0.1$ mV	$\pm 2\%$	$\pm 1\%$
Phase Error (typical)	0.2°	0.2°	0.15°

General Characteristics

Maximum Conductor Size : 8 mm diameter
 Power supply : 9V battery (with Led indicator for low batt)
 Standard Output Connection : BNC
 Operating Temperature Range : 0 to +40 °C
 Storage Temperature Range : -20 to +70 °C
 Operating Humidity : 15% to 85% (non condensing)

Offset : Autozero (press 'zero' button)
 Weight..... : 215 g (with battery)
 Auto extinction : After ~10 mn
 (press the zero button while powering the probe to disable auto extinction,
 red LED will blink three times to show that the feature is disabled)

Reference conditions: Temperature : +25°C, humidity: 20 to 75% RH, sinusoidal current: 48 to 65Hz, distortion factor: < 1%, 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: $\geq 1M\Omega$, <50pF for voltage output.

Safety Standards

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

1000 V_{RMS}, Category III, Pollution Degree 2

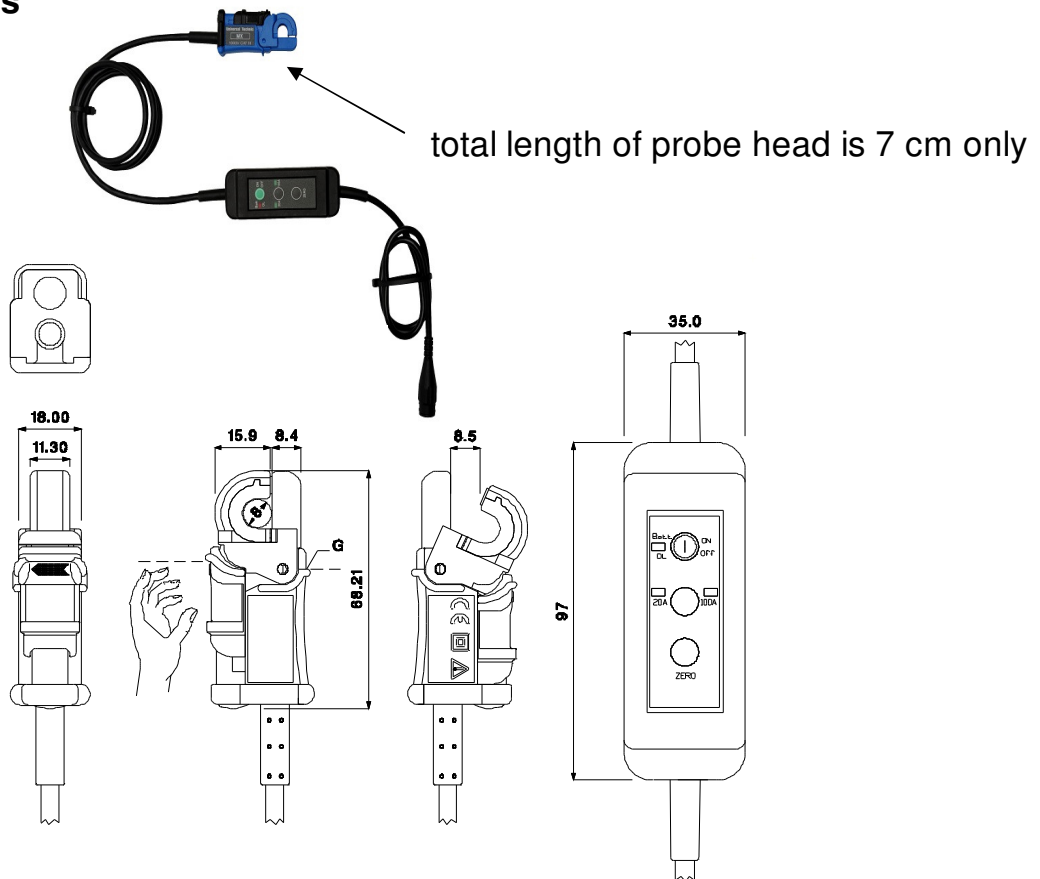
Use of the probe on **uninsulated conductors** is limited to 1000 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326 :1998

Dimensions

in mm



Length of cable : 1m from probe to control box and 50 cm from box to BNC output