5001 Baum Blvd., Pittsburgh, PA 15213
info@ayainstruments.com | 412.622.5500

Current Probe MX 20A-100A / 1V

The MX current probe has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC and DC current. Using the latest transformer technology, the MX can measure currents from 100mA to 120A over a frequency range of DC to 50kHz.

Electrical Characteristics

Current Range I_N ..... : 20 A and 100 A
Measuring Range ..... : 0.1 A to 120 A_{RMS}
Output Sensitivity ..... : 50 mV/A and 10 mV/A
Load Impedance ..... : > 1 MOhm
Conductor Position Sensitivity..... : < 0.5% @ 50/60 Hz
Error due to adjacent conductor ..... : ≤ 15 mA/A @ 50 Hz
Frequency Range ..... : DC to 50 kHz
Temperature Coefficient..... : 0.01% / °C
Working Voltage (see Safety Standards section) ..... : 1000 V AC_{RMS} or DC

Accuracy

20A :

Primary current	100 mA to 2 A	2A to 20 A
Accuracy (of reading)	± 2% ± 1 mV	± 2%
Phase shift (typ.)	0.5°	0.5°

100A :

Primary current	1 to 10 A	10 to 100 A
Accuracy (of reading)	± 2%	± 2%
Phase shift (typ.)	0.2°	0.2°

General Characteristics

Maximum Conductor Size ..... : 8 mm
Output Connection ..... : BNC or 4mm plugs
Operating Temperature Range ..... : -10 to +50 °C
Plage de température de stockage ..... : -20 to +70 °C
Storage Temperature Range ..... : 15% to 85% (non condensée)
Output zero ..... : Automatic
Weight..... : 220 g (with battery)

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

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

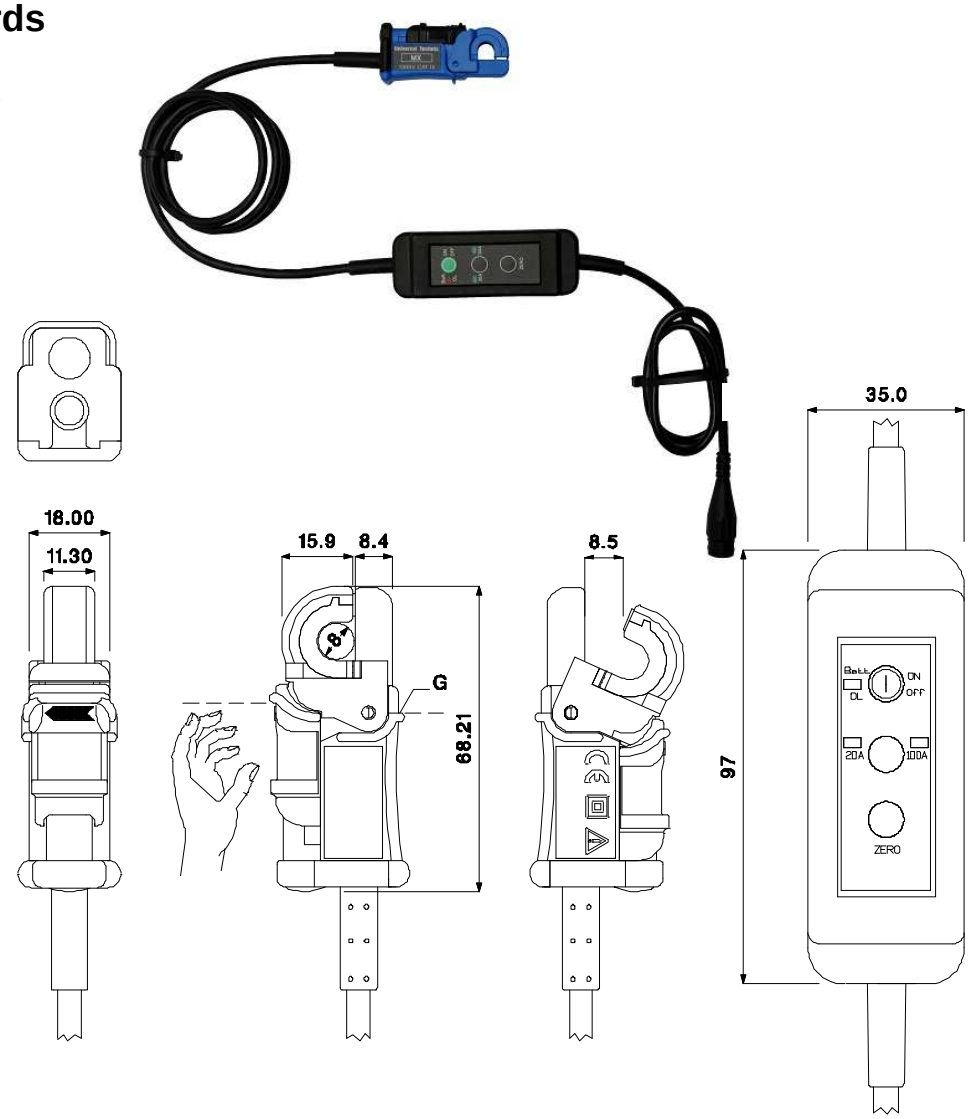
Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326 :1998

Dimensions

in mm



Cable length : 1m from the clamp to the control box and 50cm from the box to the BNC