

## Specifications

All probe specifications are warranted based on the following conditions:

- Within one year of calibration
- 23° C  $\pm$ 5° C
- 20% to 75% relative humidity
- Probe zeroed
- 1 minute warm up
- Battery at 9 V  $\pm$ 0.1 V
- External magnetic field <40 A/m
- No adjacent current carrying conductor
- 1 M $\Omega$  /100 pF probe termination

### Measurement accuracy

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Input Current (dc to 1kHz)	100mV/A	10 mV/A
50mA to 10A	< $\pm$ 3% of reading $\pm$ 50mA	
50mA to 40A	n/a	< $\pm$ 4% of reading $\pm$ 50mA
40A to 100A	n/a	< $\pm$ 15% of reading $\pm$ 100mA

### Bandwidth

(-3dB with derating - see Typical Response Curves)  
dc to 100kHz

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## Characteristics

All probe characteristics are the typical performance values and are not warranted. Characteristics are based on these conditions:

- Within one year of calibration
- 23° C  $\pm$ 5° C
- 20% to 75% relative humidity
- Probe zeroed
- 1 minute warm up
- Battery at 9 V  $\pm$ 0.1 V
- External magnetic field <40 A/m
- No adjacent current carrying conductor
- 1 M $\Omega$  /100 pF probe termination
- Conductor centered in jaw

### Measurement Sensitivities and Ranges:

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Sensitivity	Current Measurement Range
100mV/A	0A to 10A dc or peak ac
10mV/A	0A to 100A dc or peak ac

### Other Measurement Characteristics:

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	100 mV/A	10 mV/A
<b>Phase Shift</b> (DC to 1 kHz, no DC component)	< 1.5° dc to 65 Hz	< 1.0° dc to 65 Hz
<b>Noise</b>	480 $\mu$ V	3 mV
<b>Slew Rate</b>	0.3 V/ $\mu$ s	20 mV/ $\mu$ s
<b>Insertion Impedance (50 Hz/60 Hz)</b>	0.01 $\Omega$	0.01 $\Omega$
<b>Rise of Fall Time</b>	3 $\mu$ s	4 $\mu$ s

### Influence of Adjacent Conductor:

<0.2mA/A ac

### Influence of Conductor Position in Jaw:

0.5% of reading in jaw

### Overload Indication:

Red LED (OL) indicates input is out of range

### Maximum Working Voltage (refer to safety warnings and standards):

600Vac RMS CAT II

300Vac RMS CAT III

### Maximum Floating Voltage (refer to safety warnings and standards):

600Vac RMS CAT II

300Vac RMS CAT III

### Battery Characteristics

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<b>Battery Type</b>	9V Alkaline (NEDA 1604A, IEC 6LR61)
<b>Low Battery Indication</b>	Green LED (ON) when battery voltage $\geq$ 6.5V
<b>Typical Battery Consumption</b>	8.6mA
<b>Typical Battery Life</b>	55 hours

**Characteristics****Environmental Conditions**


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<b>Operating Temperature Range</b>	0° C to 50° C
<b>Storage Temperature Range</b>	-30° C to 80° C
<b>Temperature Influence</b>	<0.2% per ° C
<b>Max Operating Humidity</b>	10° C to 30° C: 85% RH (without condensation) 40° C to 50° C: 45% RH (without condensation)
<b>Altitude</b>	Operating: 0 to 2000 m Non operating: 0 to 12,000 m
<b>Indoor Use</b>	This probe is rated for indoor use only

**Mechanical Characteristics**

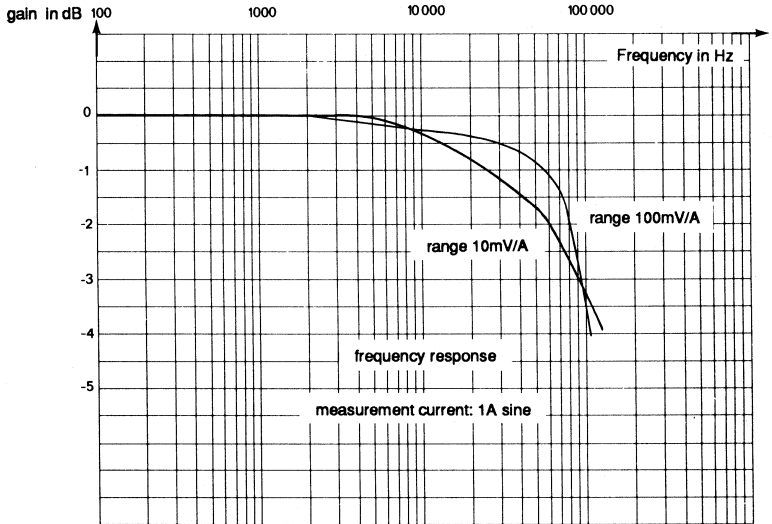

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<b>Zero Adjustment</b>	20 turn potentiometer
<b>Maximum cable diameter</b>	11.8 mm
<b>Case Protection</b>	IP20 per IEC 529
<b>Drop Test</b>	1.0 m on 38 mm of oak on concrete, tested according to IEC 1010
<b>Mechanical Shock</b>	100 G; test per IEC 68-2-27
<b>Vibration</b>	Tested per IEC 68-2-6, frequency range 10 Hz to 55 Hz, amplitude 0.15 mm
<b>Handle</b>	Lexan® 920A, UL 94 V2
<b>Dimensions</b>	231mm x 36mm x 67mm
<b>Weight</b>	330 g (11.6 oz) with battery
<b>Color</b>	Light gray
<b>Output cable</b>	Insulated coaxial cable with insulated BNC connector
<b>Output cable length</b>	2 m

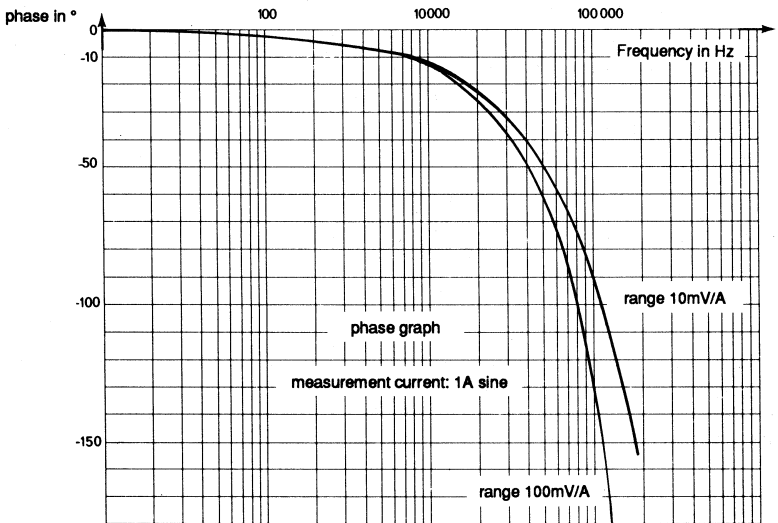
**Safety Standards**

- Double insulation or reinforced insulation between primary or secondary and outer case of the handle, per IEC 1010.
- 600 V Category III, Pollution degree 2.
- 300 V Category IV, Pollution degree 2.
- 5550 V 50/60 Hz between primary or secondary and the outer case of the handle.
- 3250V 50/60 Hz between primary and secondary

### Typical Response Curves



### Frequency



### Phase Shift