

CURRENT MEASUREMENT PROBES

MINIFLEX® SERIES

MODEL MA114

Provide a welcomed solution when accessing electrical conductors in tight places or clamping onto cable bundles



FEATURES

- 14-inch flexible sensor capable of clamping around a 3.93 inch cable or bundle
- Waterproof sensor rated to IP 67
- User selectable ranges of 3, 30, 300 and 3000 Amps
- 600V CAT IV, 1000V CAT III rated
- Not effected by magnetic saturation, provides excellent linearity and low phase shift
- Battery or USB powered for long term use
- Red LED indicates overload condition
- Positive click locking sensor eliminates disconnection errors
- Banana plug termination compatible with multimeters, data loggers and other instruments



3Aac
1 mV/mA



30Aac
100 mV/A



300Aac
10 mV/A



3,000Aac
1 mV/A



SPECIFICATIONS

MODEL	MA114
Nominal Range	3; 30; 300; 3000Aac
Measurement Range	3A Range: 0.5 to 3Aac, 30A Range: 2 to 30Aac 300A Range: 5 to 300Aac, 3000A Range: 50 to 3000Aac
Transformation Ratio	Voltage Output
Output Signal	3A Range: 1V/A (1mV/mA) (3Vac @ 3A), 30A Range: 100 mV/A (3Vac @ 30A) 300A Range: 10 mV/A (3Vac @ 300A), 3000A Range: 1 mV/A (3Vac @ 3000A)
Accuracy	3A, 30A Range: ≤ 1% of Reading ± 40mA 300A, 3000A Range: ≤ 1.5% of Reading + 40mA (≤10% Inom) ≤ 1% of Reading + 40mA (≥10% Inom)
Phase Shift	≤ 1° (0.5° typical)
Overload	3A Range: 4.5A, 30A Range: 45A, 300A Range: 450A, 3000A Range: 4500A
Frequency Range	3A Range: 10Hz to 10kHz, 30A, 300A, 3000A Range: 10Hz to 20kHz
Load Impedance	≥ 1MΩ
Working Voltage	600Vrms (CAT IV), 1000Vrms (CAT III)
Battery	Two 1.5V AA batteries or LR6 alkaline, +5Vdc with type B micro-USB
Battery Life	300 hours typical. Approximately 1,800 10-minute measurements.
Output Termination	1.6ft (0.5m) lead with two 4mm safety banana plugs
MECHANICAL	
Operating Temperature	14° to 131°F (-10° to 55°C)
Storage Temperature	-40° to 158°F (-40° to 70°C)
Operating Relative Humidity	0 to 95% @ 95°F (35°C)
Sensor Length	14" (35.6 cm)
Cable Length	6.5ft (2m)
Maximum Conductor Size	Ø 3.93" (10cm)
Dimensions	4.7 x 2.3 x 1.4" (12 x 5.8 x 3.6cm)
Weight	Approximately 10.58oz (300g)
SAFETY	
Electrical	IEC 61010-2-32 type B, 1000V CAT III, 600V CAT IV, Pollution Degree 2
Electromagnetic Compatibility	IEC 61326-1
Protection	IP54 (electronic unit), IP67 (flexible sensor)
Double Insulation	Yes

CATALOG NO.

DESCRIPTION

2153.41 MiniFlex® 14" Model MA114 (3A/1mV/A, 30A/100mV/A, 300A/10mV/A, 3000A/1mV/A)