

CURRENT MEASUREMENT PROBES

MINIFLEX® SERIES

MODEL MA114

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

SPECIFICATIONS

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



Tims



3Aac 1 mV/mA
30Aac 100 mV/A
300Aac 10 mV/A
3000Aac 1 mV/A

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 affected 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

CATALOG NO.

DESCRIPTION

2153.41

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