

CURRENT MEASUREMENT PROBES

LM SERIES

MODEL LM102 & LM103

Equipped with high performance magnetic material offering excellent linearity and improved performance. Ideal current measurement tool for use with multimeters, data loggers and power analyzers



SPECIFICATIONS

MODELS	LM102	LM103
ELECTRICAL		
Nominal Range	200Aac	
Measurement Range	50mA to 200 Aac (1Ω load) 50mA to 200Aac (10Ω load)	100mA to 200A
Transformation Ratio	1000:1	Voltage Output
Output Signal	1mA/A (200mAac @ 200A)	1mV/A (200mVac @ 200A)
Accuracy	≤1% of Reading + 0.02 A (1Ω load) ≤1.5% of Reading + 0.01 A (10Ω load)	≤1.5% of Reading+ 0.02A
Phase Shift	≤3° (1 Ω load) ≤6° (10Ω load)	≤3°
Overload	350A continuous @ ≤1kHz 200 A continuous @ ≤8kHz	
Frequency Range	48 Hz to 10kHz	
Load Impedance	≤10Ω	≤10kΩ
Open Secondary Voltage	≤30V	-
Output Termination	Double-insulated 5ft (1.5m) lead with two 4mm safety banana plugs	
MECHANICAL		
Operating Temperature	14° to 122°F (-10° to 50°C)	
Storage Temperature	-40° to 176°F (-40° to 80°C)	
Operating Relative Humidity	0 to 85% RH decreasing linearly above 95°F (35°C)	
Protection	IP20 (EN 60529)	
Maximum Conductor Size	Ø 0.63" (16mm)	
Dimensions	5.13 x 1.81 x 1.34" (130.4 x 46 x 34mm)	
Weight	Approximately 8.8oz (250g)	
Material	Polycarbonate UL 94	
SAFETY		
Electrical	EN 61010-1, EN 61010-2-031, EN 61010-2-032 600V CAT III, 300V CAT IV Pollution Degree 2	
Double Insulation	Yes	
CE Mark	Yes	

FEATURES

- Clamping diameter 0.63" (16mm)
- Measurement range from 0.1 to 200 Amps
- Over range up to 350 Amps continuous
- 1ma/A output (model LM102)
- 1mv/A output (model LM103)
- Clothes pin design allows access to tight places
- Frequency response from 48 to 10kHz
- Arrow marker clearly assist in proper orientation for power measurement applications

CATALOG NO.	DESCRIPTION
2153.04	AC Current Probe Model LM102
2153.05	AC Current Probe Model LM103