

CURRENT MEASUREMENT PROBES

MR SERIES AC/DC CURRENT PROBES



MODELS MR415 / 416 / 525 / 526

General Purpose Hall Effect Current Probes for use with DMMs, Data Loggers and Power Analyzers.

SPECIFICATIONS

MODEL	MR415	MR416	MR525	MR526
ELECTRICAL				
Current Range	0.5 to 400A _{AC} , 600A _{DC}	0.5 to 40A _{AC} , 60A _{DC} & 0.5 to 400A _{AC} , 600A _{DC}	0.5 to 1000A _{AC} , 1400A _{DC}	0.5 to 100A _{AC} , 150A _{DC} & 0.5 to 1000A _{AC} , 1400A _{DC}
Output Signal	1mV/A via a 5ft (1.5m) lead	10mV/A & mV/A via a 5ft (1.5m) lead	1mV/A via a 5ft (1.5m) lead	10mV/A & 1mV/A via a 5ft (1.5m) lead
Output Terminal	4 mm safety banana plug			
Frequency Range	DC to 30kHz (-3dB) (depending of current value)			
Phase Shift At 50/60Hz	≤1.5°@ 400A	≤2.2°@ 40A ≤1.5° @ 400A	≤1.5°@ 800A	≤2°@ 100A ≤1.5° @ 800A
Load Impedance	>1MΩ and ≤100pF			
Overload	3000A _{DC} or 1000A _{AC} continuous for < 1kHz			
Zero Adjust	Automatic on both ranges			
Power Supply	9V alkaline Battery (NEDA 1060A, 6LR61) or 5V DC Micro-USB type B			
Battery Life	50H typical			
Low Battery Indication	Green LED blinking			
Overload Indication	Red LED on when measurement > than selected range			
MECHANICAL				
Maximum Conductor Size	1.18" (30mm) or 2 bus bar 1.24 x 0.39" (31.5 x 10mm)		1.53" (39mm) or 2 bus bar 1.96 x 0.19" (50 x 5mm)	
Dimensions (H x W x D)	8.82 x 3.82 x 1.73" (224 x 97 x 44mm)		9.31 x 3.82 x 1.73" (236.5 x 97 x 44mm)	
Weight (with Battery)	0.98lbs (440g)		1.15lbs (520g)	
ENVIRONMENTAL				
Operating Temperature	14° to +131°F (-10 to +55°C)			
Storage Temperature	-40° to +176°F (-40 to +80°C)			
Relative Humidity	Up to 85% @ 35°C			
SAFETY				
Ingress Protection	IP 40			
EMC	EN 61326-1			
Electrical	IEC 61010-1, EN 61010-2-32, Pollution Degree 2, 600V CAT III			



FEATURES

- The jaw shape enables users to clamp on to cables or small busbars
- Powered by battery or standard external 5V power supply via micro-USB connector
- Measures up to 1000A_{AC} and 1400A_{DC} (model dependent)
- Automatic Zero DC reset function
- Auto Power Off enable/disable function
- Millivolt output compatible with most equipment and instruments
- Battery life up to 50 hours
- Safety rating 600V CATIII

CATALOG NO.	DESCRIPTION
1200.80	AC/DC Current Probe Model MR415 (400AAC, 1mV/A & 600ADC, 1mV/A, 4mm Banana Plug Lead) Replaces MR410
1200.82	AC/DC Current Probe Model MR416 (40AAC, 60ADC, 10mV/A & 400AAC, 600ADC, 1mV/A, 4mm Banana Plug Lead) Replaces MR411
1200.81	AC/DC Current Probe Model MR415 (1000AAC, 1mV/A & 1400ADC, 1mV/A, 4mm Banana Plug Lead) Replaces MR520
1200.83	AC/DC Current Probe Model MR526 (100AAC, 150ADC, 10mV/A & 1000AAC, 1400ADC, 1mV/A, 4mm Banana Plug Lead) Replaces MR521