

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 400AAC, 600ADc	0.5 to 40AAC, 60ADc & 0.5 to 400AAC, 600ADc	0.5 to 1000AAC, 1400ADc	0.5 to 100AAC, 150ADc & 0.5 to 1000AAC, 1400ADc
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	3000ADc or 1000AAC 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 1000Aac and 1400Adc (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