

# CURRENT MEASUREMENT PROBES

## MR SERIES AC/DC CURRENT PROBES



### MODELS MR417 / 527

*Hall Effect Oscilloscope AC/DC Current Probes for Oscilloscopes, Waveform and other Frequency Sensitive Display Instruments with BNC Inputs.*

### SPECIFICATIONS

MODEL	MR417	MR527
<b>ELECTRICAL</b>		
Current Range	0.5 to 40A <sub>AC</sub> , 60A <sub>DC</sub> & 0.5 to 400A <sub>AC</sub> , 600A <sub>DC</sub>	0.5 to 100A <sub>AC</sub> , 150A <sub>DC</sub> & 0.5 to 1000A <sub>AC</sub> , 1400A <sub>DC</sub>
Output Signal	10mV/A & 1mV/A via a 6.5ft	10mV/A & 1mV/A via a 6.5ft
Output Terminal	(2m) lead BNC cable	
Frequency Range	DC to 30kHz (-3dB) (depending of current value)	
Phase Shift At 50/60Hz	≤2°@ 40A & ≤1.5° @ 400A	≤2.2°@ 40A & ≤1.5° @ 400A
Load Impedance	>1MΩ and ≤100pF	
Overload	3000A <sub>DC</sub> or 1000A <sub>AC</sub> 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	
<b>MECHANICAL</b>		
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)
<b>ENVIRONMENTAL</b>		
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	
<b>SAFETY</b>		
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<sub>AC</sub> and 1400A<sub>DC</sub> (model dependent)
- Equipped with a Zero DC reset function
- Auto Power Off enable/disable function
- LED overload and low battery indicators
- Millivolt output compatible with most equipment and instruments
- Equipped with a coaxial lead and isolated BNC connectors for direct connection to an oscilloscope
- Battery life up to 50 hours
- Safety rating 600V CATIII

CATALOG NO.	DESCRIPTION
1200.84	AC/DC Current Probe Model MR417 (40AAC, 60ADC, 10mV/A & 400AAC, 600ADC, 1mV/A, BNC Output) Replaces MR461
1200.85	AC/DC Current Probe Model MR526 (100AAC, 150ADC, 10mV/A & 1000AAC, 1400ADC, 1mV/A, BNC Output) Replaces MR561



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