CURRENT MEASUREMENT PROBES

MR SERIES AC/DC CURRENT PROBES

MODELS MR417 / 527

Hall Effect AC/DC current probes for Oscilloscopes and other instruments with waveform displays

SPECIFICATIONS

MODEL	MR417	MR527
ELECTRICAL		
Current Range	0.5 to 40Aac, 60Adc 0.5 to 400Aac, 600Adc	0.5 to 100Aac, 150Adc 0.5 to 1000Aac, 1400Adc
Output Signal	10mV/A, 1mV/A	
Frequency Range	DC to 30kHz (-3dB) (depending of current value)	
Phase Shift At 50/60Hz	≤2°@ 40A ≤1.5° @ 400A	≤2.2°@ 100A ≤1.5° @ 1000A
Load Impedance	>1MΩ and ≤100pF	
Overload	3000Abc 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	
Output Termination	6.5 ft (2 m) coaxial cable with insulated BNC terminal	
MECHANICAL		
Maximum Conductor Size	Cables: (1) 0.18" (30mm) or (2) .94" (24mm) Bus Bar: (1) 1.97 x 0.39" (50 x 10mm) or (2) 1.23 x 0.39" (31.5 x 10mm) or (3) 0.98 x 0.31" (25 x 8mm)	Cables: (1) 1.5" (39mm) or (2) 1" (25.4mm) Bus Bar: (1) 1.97 x 0.49" (50 x 12.5mm) or (2) 0.98 x 0.2" (25 x 5mm); (1) 1.24 x 0.30" (31.5 x 10mm) or (3) 0.98 x 0.31" (25 x 8mm)
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	
Safety Rating	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 bus bars
- Powered by battery or standard external 5V power supply via micro-USB connector
- Measures up to 1000Aac and 1400Abc (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, 60Abc, 10mV/A & 400Aac, 600Abc, 1mV/A, BNC Output) Replaces MR461
1200.85	AC/DC Current Probe Model MR527 (100Aac, 150Abc, 10mV/A & 1000Aac, 1400Abc, 1mV/A, BNC Output) Replaces MR561