CURRENT MEASUREMENT PROBES

MR SERIES AC/DC CURRENT PROBES

IP 40 | 600 V CAT III | CE

MODELS MR415, MR416, MR417, MR526 & MR527

Hall effect AC/DC current probes for general-purpose and oscilloscope use — measuring both AC and DC without changing modes or leads.



MODEL MR415



MODEL MR416



MODEL MR417



MODEL MR526



MODEL MR527

FEATURES

- Measures AC and DC simultaneously using Hall effect technology; automatic zero DC reset on both ranges eliminates offset errors at the push of a button
- Banana plug models *(Models MR415, MR416, and MR526)* cover ranges from 40 mA to 1400 A$_{DC}$ and (0.5 to 1000) A$_{AC}$ across three models for broad application coverage
- BNC output models *(Models MR417 and MR527)* are optimized for oscilloscopes and waveform displays with coaxial output on a 6.5 ft cable for clean signal transfer
- Frequency range DC to 30 kHz (–3 dB) with phase shift ≤2.2° at rated current; battery life up to 50 hours or continuous operation via 5 V micro-USB
- Red LED overload indicator and green LED low-battery warning; jaw accommodates cables up to 1.5 in and multiple bus bar configurations; rated 600 V CAT III



See aemc.com for Accessories/Replacements

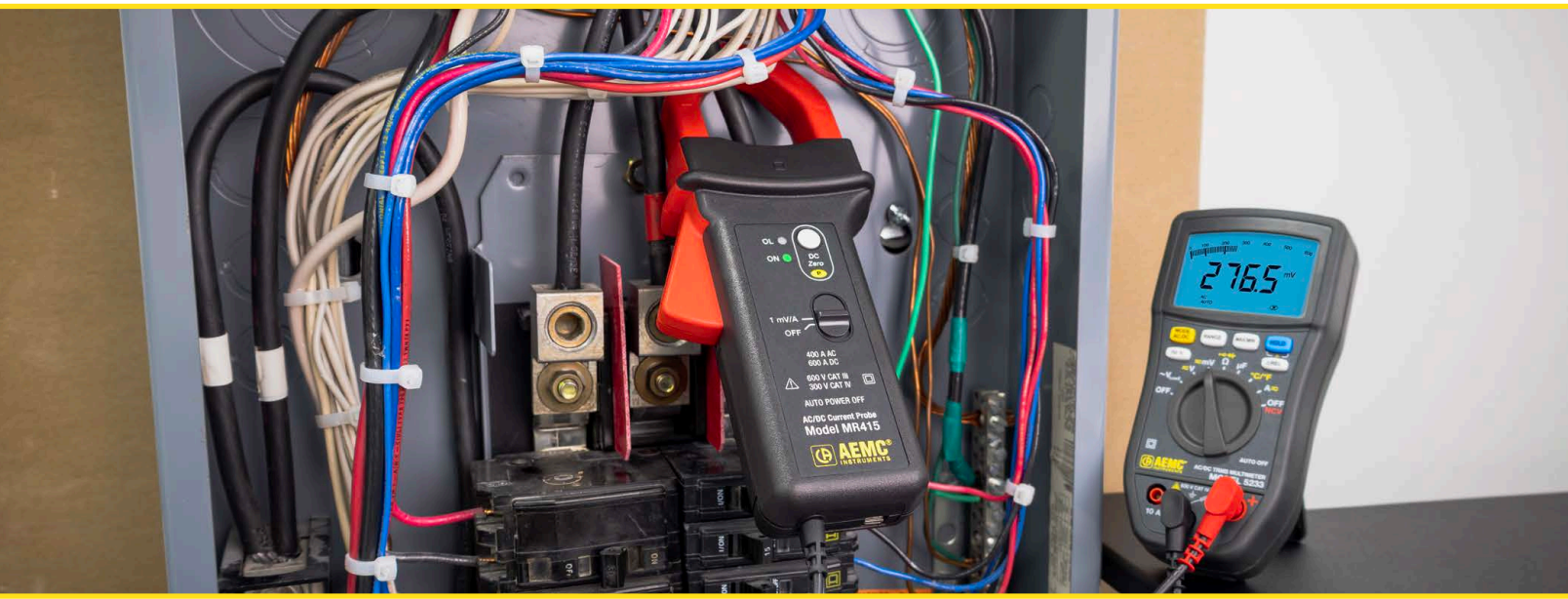
CAT. #	DESCRIPTION
1200.80	AC/DC Current Probe Model MR415 (400 A$_{AC}$, 1 mV/A & 600 A$_{DC}$, 1 mV/A, 4 mm Banana Plug Lead) - Replaces MR410
1200.82	AC/DC Current Probe Model MR416 (40 A$_{AC}$, 60 A$_{DC}$, 10 mV/A & 400 A$_{AC}$, 600 A$_{DC}$, 1 mV/A, 4 mm Banana Plug Lead) - Replaces MR411
1200.83	AC/DC Current Probe Model MR526 (100 A$_{AC}$, 150 A$_{DC}$, 10 mV/A & 1000 A$_{AC}$, 1400 A$_{DC}$, 1 mV/A, 4 mm Banana Plug Lead) - Replaces MR521
1200.84	AC/DC Current Probe Model MR417 (40 A$_{AC}$, 60 A$_{DC}$, 10 mV/A & 400 A$_{AC}$, 600 A$_{DC}$, 1 mV/A, BNC Output) Replaces MR461
1200.85	AC/DC Current Probe Model MR527 (100 A$_{AC}$, 150 A$_{DC}$, 10 mV/A & 1000 A$_{AC}$, 1400 A$_{DC}$, 1 mV/A, BNC Output) Replaces MR561

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CURRENT MEASUREMENT PROBES
MR SERIES AC/DC CURRENT PROBES
MODELS MR415, MR416, MR417, MR526 & MR527

MODELS	MR415	MR416	MR417	MR526	MR527
ELECTRICAL					
AC Range	500 mA to 400 A			500 mA to 1000 A	
DC Range	500 mA to 600 A			500 mA to 1400 A	
Output Signal	1 mV/A	10 mV/A, 1 mV/A			
Typical Accuracy	(1.5 to 4) % *(range dependent)*			(1.5 to 5) % *(range dependent)*	
Frequency Range / Bandwidth	DC to 30 kHz				
Phase Shift	≤ 2.2° (3 to 300 A); ≤ 1.5° (300 to 400 A)	1 mV/A: ≤ 2.2° (3 to 300 A); ≤ 1.5° (300 to 400 A) 10 mV/A: ≤ 3° (1 to 20 A); ≤ 2.2° (20 to 40 A)		1 mV/A: ≤ 2° (3 to 200 A); ≤ 1.5° (200 to 1000 A) 10 mV/A: ≤ 2° (1 to 100 A)	
Overload	3000 A_{DC} or 1000 A_{AC} continuous				
Load Impedance	≥ 1 MΩ and ≤ 100 pF				
MECHANICAL					
Max Conductor Size	Ø 1.18 in (30 mm)			Ø 1.54 in (39 mm)	
Output Termination	4 mm safety banana plugs		6.6 ft lead with BNC	4 mm safety banana plugs	6.6 ft lead with BNC
POWER					
Power Supply	9 V alkaline battery or 5 V micro-USB				
Battery Life	50 h				
SAFETY					
Safety Rating	600 V CAT III / 300 V CAT IV				
Ingress Protection	IP40				
COMPATIBILITY					
Compatible Instruments	DMMs, Data Loggers, Power Analyzers		Oscilloscopes, Power Analyzers	DMMs, Data Loggers, Power Analyzers	Oscilloscopes, Power Analyzers

Consult factory for NIST Calibration prices.



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CURRENT MEASUREMENT PROBES

SELECTION CHART

MODEL	SERIES/ FAMILY	TYPE	AC RANGE	DC RANGE	OUTPUT SIGNAL	FREQUENCY RANGE	MAX CONDUCTOR	TERMINATION	SAFETY RATING	CAT. #
ROGOWSKI / FELXIBLE										
300-24-2-10	AmpFlex®	Flexible AC	(5 to 300) A	N/A	100/10 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.88
300-120-2-10	AmpFlex®	Flexible AC	(5 to 300) A	N/A	100/10 mV/A	10 Hz to 20 kHz	38 in (970 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.39
1000-24-2-1	AmpFlex®	Flexible AC	(5 to 1000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.98
1000-36-2-1	AmpFlex®	Flexible AC	(5 to 1000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.00
3000-24-1-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	1 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.46
3000-36-1-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	1 mV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.48
3000-24-2-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.05
3000-36-2-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.00
3000-48-2-1	AmpFlex®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	10 Hz to 20 kHz	15 in (381 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2112.01
6000-36-2-0.1	AmpFlex®	Flexible AC	(5 to 6000) A	N/A	1 mV/A, 100 µV/A	10 Hz to 20 kHz	11 in (279 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.21
30000-24-2-0.1	AmpFlex®	Flexible AC	(5 to 30,000) A	N/A	1 mV/A, 100 µV/A	10 Hz to 20 kHz	8 in (203 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2113.33
24-3001	FlexProbe®	Flexible AC	(5 to 3000) A	N/A	10/1 mV/A	40 Hz to 5 kHz	7.6 in (193 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2120.81
400D-10	Digital FlexProbe®	Flexible AC (Display)	100 mA to 399.9 A	N/A	Direct Display	10 Hz to 3 kHz	2.75 in (70 mm)	Built-in Display	600 V CAT IV	2153.31
400D-24	Digital FlexProbe®	Flexible AC (Display)	100 mA to 399.9 A	N/A	Direct Display	10 Hz to 3 kHz	8 in (203 mm)	Built-in Display	600 V CAT IV	2153.36
4000D-14	Digital FlexProbe®	Flexible AC (Display)	(1 to 3999) A	N/A	Direct Display	10 Hz to 3 kHz	3.94 in (100 mm)	Built-in Display	600 V CAT IV	2153.32
4000D-24	Digital FlexProbe®	Flexible AC (Display)	(1 to 3999) A	N/A	Direct Display	10 Hz to 3 kHz	8 in (203 mm)	Built-in Display	600 V CAT IV	2153.35
MA114	MiniFlex®	Flexible AC	500 mA to 3000 A	N/A	1 mV/mA, (100 / 10 / 1) mV/A	10 Hz to 20 kHz	3.93 in (100 mm)	Banana Plugs	1000 V CAT III 600 V CAT IV	2153.41
MF 300-10-2-10-HF	MiniFlex® HF	Flexible AC (HF)	500 mA to 300 A	N/A	100/10 mV/A	5 Hz to 1 MHz	2.75 in (70 mm)	BNC	Housing: 600 V CAT III / 300 V CAT IV; Sensor: 1000 V CAT III / 600 V CAT IV	2126.84
MF 3000-14-1-1-HF	MiniFlex® HF	Flexible AC (HF)	500 mA to 3000 A	N/A	1 mV/A	5 Hz to 1 MHz	3.93 in (100 mm)	BNC	Housing: 600 V CAT III / 300 V CAT IV; Sensor: 1000 V CAT III / 600 V CAT IV	2126.86
MF 3000-24-1-1	MiniFlex®	Flexible AC	500 mA to 3000 A	N/A	1 mV/A	10 Hz to 20 kHz	7.5 in (190 mm)	BNC	Housing: 600 V CAT III / 300 V CAT IV; Sensor: 1000 V CAT III / 600 V CAT IV	2132.63

OUTPUT TERMINATIONS

Lead with BNC
Insulated 6.5 ft (2 m) coaxial cable with insulated BNC connector rated 600 Vrms



Jacks
Two standard safety banana jacks (4 mm)



Leads
Double/reinforced 5 ft (1.5 m) leads with 4 mm safety banana plug



Shrouded Banana Plugs
Two 4 mm safety banana plugs; standard ¾ in (19 mm) spacing



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CURRENT MEASUREMENT PROBES

SELECTION CHART

MODEL	SERIES/ FAMILY	TYPE	AC RANGE	DC RANGE	OUTPUT SIGNAL	FREQUENCY RANGE	MAX CONDUCTOR	TERMINATION	SAFETY RATING	CAT. #
AC IRON CORE										
MN01	MN Series	AC Iron Core	(2 to 150) A	N/A	1 mA/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2129.17
MN02	MN Series	AC Iron Core	50 mA to 100 A	N/A	1 mA/A	48 Hz to 10 kHz	0.39 in (10 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2129.20
MN05	MN Series	AC Iron Core	5 mA to 100 A	N/A	1 mV/mA, 1 mV/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2129.19
MN09	MN Series	AC Iron Core	(1 to 150) A	N/A	100 mV$_{DC}$/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III	2129.21
MN251T	MN200 Series	AC Iron Core	500 mA to 240 A	N/A	1 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Lead w/ BNC	600 V CAT III	2132.59
MN261	MN200 Series	AC Iron Core	100 mA to 24 A 500 mA to 240 A	N/A	(100 / 10) mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Lead w/ BNC	600 V CAT III	2115.82
MN291	MN200 Series	AC Iron Core	500 mA to 240 A	N/A	100 mV$_{DC}$/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2115.84
MN307	MN300 Series	AC Iron Core	100 mA to 12 A	N/A	100 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2116.23
MN352	MN300 Series	AC Iron Core	100 mA to 200 A	N/A	10 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Jacks	600 V CAT III	2116.26
MN375	MN300 Series	AC Iron Core	100 mA to 10 A	N/A	100 mV/A	40 Hz to 3 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2115.41
MN379	MN300 Series	AC Iron Core	5 mA to 120 A	N/A	(200 / 10) mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Banana Plugs	600 V CAT III	2153.01
MN134	MN Series	AC Iron Core	1 mA to 10 A	N/A	100 mV/A	(48 to 500) Hz	0.39 in (10 mm)	Banana Plugs	600 V CAT III	2129.22
MN379T	MN300 Series	AC Iron Core	5 mA to 120 A	N/A	(200 / 100 mV/A	40 Hz to 10 kHz	0.78 in (20 mm)	Lead w/ BNC	600 V CAT III	2153.02
LM102	LM Series	AC Iron Core	50 mA to 200 A	N/A	1 mA/A	48 Hz to 10 kHz	0.63 in (16 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2153.04
LM103	LM Series	AC Iron Core	100 mA to 200 A	N/A	1 mV/A	48 Hz to 10 kHz	0.63 in (16 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2153.05
MD301	MD Series	AC Iron Core	(2 to 500) A	N/A	1 mV$_{DC}$/A	48 Hz to 1 kHz	1.18 in (30 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1201.07
MD305	MD Series	AC Iron Core	(1 to 600) A	N/A	1 mA/A	40 Hz to 1 kHz	1.18 in (30 mm)	Banana Plugs	600 V CAT III	1201.36
MD361	MD Series	AC Iron Core	(1 to 500) A; 700 A max	N/A	1 mV/A	5 Hz to 10 kHz	Ø 1.18 in (30 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	2153.10
SR604	SR600 Series	AC Iron Core	100 mA to 1200 A	N/A	1 mA/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III	2113.44
SR651	SR600 Series	AC Iron Core	100 mA to 1200 A	N/A	1 mV/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Jacks	600 V CAT III	2113.45
SR661	SR600 Series	AC Iron Core	100 mA to 1200 A	N/A	(100 / 10 / 1) mV/A	1 Hz to 100 kHz	2.05 in (52 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	2113.49
SR701	SR700 Series	AC Iron Core	1 mA to 1200 A	N/A	1 mA/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Jacks	600 V CAT III	2116.29
SR704	SR700 Series	AC Iron Core	1 mA to 1200 A	N/A	1 mA/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III	2116.30
SR752	SR700 Series	AC Iron Core	100 mA to 1200 A	N/A	1 mV/A	30 Hz to 5 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III	2116.32
SR759	SR700 Series	AC Iron Core	1 mA to 1200 A	N/A	(1000 / 100 / 10 /1) mV/A	30 Hz to 3 kHz	2.05 in (52 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2116.33

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CURRENT MEASUREMENT PROBES

SELECTION CHART

MODEL	SERIES/ FAMILY	TYPE	AC RANGE	DC RANGE	OUTPUT SIGNAL	FREQUENCY RANGE	MAX CONDUCTOR	TERMINATION	SAFETY RATING	CAT. #
HALL EFFECT (AC/DC)										
K100	K Series	Hall Effect AC/DC	(0 to 3) Arms	0 to ± 4 A	1 mV/mA	DC to 2 kHz	0.18 in (4.5 mm)	Banana Plugs	300 V CAT II	1200.67
K110	K Series	Hall Effect AC/DC	(0 to 300) mArms	0 to ± 400 mA	10 mV/mA	DC to 1.2 kHz	0.18 in (4.5 mm)	Banana Plugs	300 V CAT II	2111.73
SL306	SL Series	Hall Effect AC/DC	(5 mA to 60) A	5 mA to 80 A	1 mV/mA, 10 mV/A	DC to 20 kHz	0.46 in (11.8 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	2153.08
SL361	SL Series	Hall Effect AC/DC	100 mA to 100 A	100 mA to 100 A	100 / 10 mV/A	DC to 100 kHz	0.46 in (11.8 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	2153.09
MR415	MR Series	Hall Effect AC/DC	500 mA to 400 A	500 mA to 600 A	1 mV/A	DC to 30 kHz	1.18 in (30 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1200.80
MR416	MR Series	Hall Effect AC/DC	500 mA to 400 A	500 mA to 600 A	10 / 1 mV/A	DC to 30 kHz	1.5 in (38 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1200.82
MR526	MR Series	Hall Effect AC/DC	500 mA to 1000 A	500 mA to 1400 A	10 / 1 mV/A	DC to 30 kHz	1.5 in (38 mm)	Banana Plugs	600 V CAT III 300 V CAT IV	1200.83
MR417	MR Series	Hall Effect AC/DC	500 mA to 400 A	500 mA to 600 A	10 / 1 mV/A	DC to 30 kHz	1.18 in (30 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	1200.84
MR527	MR Series	Hall Effect AC/DC	500 mA to 1000 A	500 mA to 1400 A	10 / 1 mV/A	DC to 30 kHz	1.5 in (38 mm)	Lead w/ BNC	600 V CAT III 300 V CAT IV	1200.85
MH60	MH Series	Hall Effect AC/DC (1 MHz)	500 mA to 100 A	500 mA to 100 A	10 mV/A	DC to 1 MHz	1.02 in (26 mm)	Lead w/ BNC	600 V CAT II 300 V CAT III	2153.03

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