CURRENT MEASUREMENT PROBES

Selection for General Purpose & Oscilloscope/BNC Terminated Probes

Learn more on how to select a proper Clamp-On Current Probe for your specific needs

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MiniFlex® Series

- Measures from 0.5 to 3000Arms
- Accuracy ±1% of Reading ± from 0.2 to 0.25A
- TRMS measurements when connected to a TRMS instrument
- No core saturation or damage if overloaded
- Low phase shift for power measurements
- Measures only AC
- High frequency models available for oscilloscopes
- Excellent linearity
- CE Mark

DC/AC MicroProbes

- Measures extremely low level DC from 100µA
- Outputs signal proportional to total current (DC + AC)
- Low noise
- Ultra-compact size and non-contact clamp-on convenience
- Simple plug-in operation
- Designed for use with digital multimeters and oscilloscopes
- No range or mode (AC/DC) switching required
- CE Mark

MN200 & MN300 Series AC Current Probes

- Small, compact size
- Measurement range of 5mA to 240AAC
- Jaw opening accommodates conductors up to 250kcmil
- Designed for DMMs, loggers, recorders and oscilloscopes
- 40Hz to 10kHz response
- Available with mA or mV output signals
- Available with jack outputs, integral leads with shrouded safety banana plugs or BNC terminated lead
- CE Mark, UL approved

MR400 & MR500 Series AC/DC Current Probes

- Measurement range of 400AAC/600ADC (MR400 Series)
- Measurement range of 1000AAC/1500ADC (MR500 Series)
- Two distinct jaw shapes to be used for hooking or prying around the conductor
- Low phase shift for power measurements
- Designed for DMMs, recorders, oscilloscopes, power and harmonic meters
- CE Mark

SR Series Current Probes

- Measurement range of 100mA to 1200AAC
- Large jaw opening accommodates up to two 500kcmil conductors
- Ergonomic design and easy operation
- Low phase shift for power measurements
- Available with mA or mV output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- CE Mark, UL approved

Flexible Current Probes

- Models ranging from 30 to 30,000Arms
- Accuracy ±1% of reading
- TRMS measurements when connected to a TRMS instrument
- No core saturation or damage if overloaded
- Overrange LED for measurement circuitry
- CE Mark

MD Series AC Current Probes

- 600A range with mA or mV output
- Unique hook-shaped jaws that enable the user to "pry" into or "hook" onto cables
- Maximum conductor size is 2 x 500kcmil
- Works as a traditional current transformer with ratio of 1000:1
- AC/DC outputs available
- CE Mark

JM Series AC Current Probes

- Current range: up to 3000AAC (continuous cycle for the full temperature range)
- Output: 1mA/A voltage or V/A voltage
- Designed for use on DMMs, power and harmonic meters, recorders of instruments with AC current ranges
- CE Mark

SL Series AC/DC Current Probes

- Low AC and DC measurements
- 50mA to 100A peak
- Unique design for probing in crowded wiring in industrial and automotive environments
- Hall effect sensor technology
- Use with DMMs, voltmeters and other voltage measuring instruments
- CE Mark

MN01 to MN05 Series AC Current Probes

- Small, compact and very tough AC probes
- "Clothes pin" shape makes them ideal for use in tight areas, such as breaker panels, controller panels or outlets
- Measurements from 1mA to 150AAC
- Excellent companions to all DMMs, permits very low AC current measurements
- CE Mark

MN100 Series AC Current Probes

- Small, compact and very tough AC probes
- "Clothes pin" shape makes them ideal for use in tight areas, such as breaker panels, controller panels or outlets
- Measurements from 1mA to 150AAC
- Excellent companions to all DMMs, permits very low AC current measurements

Note: Product image size not proportionate. Not all models are CE and UL approved; please consult factory.

Oscilloscope & BNC Terminated Probes

Oscilloscope current probes expand oscilloscope applications in industrial or power measurement environments, and are ideal for analysis and measurement of distorted current waveforms and harmonics

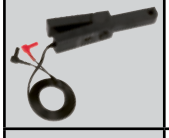
MODEL	MEASUREMENT RANGE		OUTPUT SIGNAL	PHASE SHIFT*	MAXIMUM CONDUCTOR SIZE		OUTPUT CONNECTION
	AC	DC	VOLTAGE		Ø CABLE	BUS BAR	
SL261 	100mA to 10A 1 to 100A	100mA to 10A 1 to 100A	100mV/AAC/DC 10mV/AAC/DC	<1.5°	0.46" (11.8mm)	N/A	Lead w/BNC UL
MN261 	0.1 to 24A 0.5 to 240A	–	100mVAC/AAC 10mVAC/AAC	<2.5°	0.78" (19.8mm)	N/A	Lead w/BNC UL
MR461 	0.2 to 40A 0.5 to 400A	0.4 to 60A 0.5 to 600A	10mV/AAC/DC 1mV/AAC/DC	<1.5°	One 1.18" (30mm) Two 0.95" (24mm) 2 x 500kcmil	Two 1.2 x 0.4" (31.5 x 10mm)	Lead w/BNC
MR561 	0.2 to 100A 0.5 to 1000A	0.4 to 150A 0.5 to 1500A	10mV/AAC/DC 1mV/AAC/DC	<1.5°	One 1.5" (39mm) Two 0.98" (25mm)	One 1.96 x 0.49" (50 x 12.5mm) Two 1.96 x 0.19" (50 x 5mm)	Lead w/BNC
SR661 	0.1 to 12A 0.1 to 120A 1 to 1200A	—	100mVAC/AAC 10mVAC/AAC 1mVAC/AAC	<1°	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Lead w/BNC UL
JM861 	1 to 30A 1 to 300A 1 to 3000A	—	10mVAC/AAC 1mVAC/AAC 0.1mVAC/AAC	<1°	2.52" (64mm) 2.52 x 3.94" (64 x 100mm)	1.97 x 5.31" (50 x 135mm)	Lead w/BNC

**Phase shift indicated at maximum rating.*
Note: All probes are rated 600V CAT III and CE compliant. Not all models are UL approved; please consult factory.

CATALOG NO.	DESCRIPTION
1201.51	AC/DC Current Probe Model SL261 (10A-100mV/A, 100A-10mV/A, BNC)
2115.82	AC Current Probe Model MN261 (24A-100mV/A, 240A-10mV/A, BNC)
1200.72	AC Current Probe Model MR461 (60A-10mV/A, 600A-1mV/A, BNC)
1200.73	AC Current Probe Model MR561 (150A-10mV/A, 1500-1mV/A, BNC)
2113.49	AC Current Probe Model SR661 (10A-100mV/A, 100A-10mV/A, 1000A-1mV/A, BNC)
2110.90	AC Current Probe Model JM861 (30A-10mV/A, 300A-1mV/A, 3000A-0.1mV/A, BNC)

General Purpose Probes

The most complete line of current probes offering a variety of output options and terminations for recorders, data loggers, oscilloscopes, DMMs and other instruments

SERIES	MODEL	RATIO	MEASUREMENT RANGE		OUTPUT SIGNAL		PHASE SHIFT**	MAXIMUM CONDUCTOR SIZE		OUTPUT CONNECTION	CATALOG NO.	PRICE***
			AC	DC	CURRENT	VOLTAGE		Ø CABLE	BUS BAR			
	MN01	–	2 to 150A	–	1mAAC/AAC*	–	N/A	0.39" (10mm)	N/A	Lead	2129.17	
	MN02	1000:1	50mA to 100A 50mA to 90A	–	1mA/A*	–	N/A	0.39" (10mm)	N/A	Lead	2129.20	
	MN03	–	2 to 100A	–	–	1mV/A	N/A	0.39" (10mm)		Lead	2129.18	
	MN05	–	5mAAC to 10AAC 1 to 100AAC	–	–	1mVAC/mAAC 1mVAC/AAC	N/A	0.39" (10mm)		Lead	2129.19	
	MN103	–	1mA to 10A 1 to 100A	–	–	1mVAC/mAAC 1mVAC/AAC	N/A			Lead	1031.02	
	MN106	1000:1	2 to 150A	–	1mAAC/AAC	–	<10°	0.47" (12mm)	N/A	Lead	1031.17	
	MN114	–	1mA to 10A	–	–	100mVAC/AAC	<8°			Lead	2110.71	
	MN185	1000:1	50mA to 120A	–	1mAAC/AAC	–	<3.5°			Jack	100.185	
	MN213	1000:1	0.5 to 240A	–	1mAAC/AAC*	–	<2.5°			Lead	2115.75	
	MN251	–	0.5 to 240A	–	–	1mVAC/AAC	<2.5°			Lead	2115.77	
	MN253	–	0.5 to 240A	–	–	10mVAC/AAC	<2.5°			Lead	2115.79	
	MN255	–	0.1 to 24A 0.1 to 240A	–	–	100mVAC/AAC 10mVAC/AAC	<2.5°			Lead	2115.81	
	MN291	–	0.5 to 240A	–	–	100mVDC/AAC	N/A			Lead	2115.84	
	MN307	–	10mA to 12A	–	–	100mV/AAC	<2.5°			Lead	2116.23	
	MN312	1000:1	0.1 to 200A	–	1mAAC/AAC*	–	<2.5°	0.78" (19.8mm)	N/A	Jack	2116.24	
	MN313	1000:1	0.1 to 200A	–	1mAAC/AAC*	–	<2.5°			Lead	2116.25	
	MN352	–	0.1 to 150A	–	–	10mV/AAC	<2.5°			Jack	2116.26	
	MN353	–	0.1 to 150A	–	–	10mV/AAC	<2.5°			Lead	2116.27	
	MN373	–	0.01 to 2.4A 0.1 to 200A	–	–	1000mV/AAC 10mV/AAC	<3°			Lead	2116.28	
	MN375	–	0.1 to 10A	–	–	100mV/AAC	<1.5°			Lead	2115.41	
	MN379	–	0.005 to 6A 0.1 to 120A	–	–	200mV/AAC 10mV/AAC	<1.5°			Lead	2153.01	
	SL206	–	10mA to 1.5A 50mA to 60A	10mA to 2A 50mA to 80A	–	1mV/mAAC/DC 10mV/AAC/DC	<1°	0.46" (11.8mm)	N/A	Lead	1201.45	
	MD301	1000:1	2 to 500A	–	–	1mVDC/AAC	N/A	1.18" (30mm) 2 x 500kcmil	2.48 x 0.20" (63 x 5mm)	Lead	1201.07	
	MD304	100:1	1 to 600A	–	10mAAC/AAC	–	<3°			Lead	1201.37	
	MD305	1000:1	1 to 600A	–	1mAAC/AAC	–	<1°			Lead	1201.36	

**Diode Protection for open secondary (Output)*
***Phase shift indicated at maximum rating*
****Consult factory for NIST Calibration price*
Note: Models MN103, MN106, MN114 & MN185 are not CE compliant. MN200 & MN300 series probes are UL approved.

General Purpose Probes

The most complete line of current probes offering a variety of output options and terminations for recorders, data loggers, oscilloscopes, DMMs and other instruments

SERIES	MODEL	RATIO	MEASUREMENT RANGE		OUTPUT SIGNAL		PHASE SHIFT**	MAXIMUM CONDUCTOR SIZE		OUTPUT CONNECTION	CATALOG NO.	PRICE***
			AC	DC	CURRENT	VOLTAGE		Ø CABLE	BUS BAR			
	SR600	1000:1	0.1 to 1000A	–	1mAAC/AAC	–	<0.5°	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Jack	2113.42	
	SR601	1000:1	0.1 to 1000A	–	1mAAC/AAC*	–	<0.5°			Jack	2113.43	
	SR604	1000:1	0.1 to 1000A	–	1mAAC/AAC*	–	<0.5°			Lead	2113.44	
	SR632	1000:5	0.1 to 1000A	–	5mAAC/AAC*	–	<1°			Lead	2114.79	
	SR634	250:5 500:5 1000:5	1 to 250A 1 to 500A 1 to 1000A	–	20mAAC/AAC 10mAAC/AAC 5mAAC/AAC*	–	<1°			Jack	2113.48	
	SR651	–	0.1 to 1000A	–	–	1mVAC/AAC	<0.5°			Jack	2113.45	
	SR701	1000:1	1mA to 1000A	–	1mAAC/AAC*	–	<0.5°			Jack	2116.29	
	SR704	1000:1	1mA to 1000A	–	1mAAC/AAC*	–	<0.5°			Lead	2116.30	
	SR752	–	100mA to 1000A	–	–	1mVAC/AAC	<0.7°			Lead	2116.32	
	SR759	–	1mA to 1A 10mA to 10A 0.1 to 100A 1 to 1000A	–	–	1000mVAC/AAC 100mVAC/AAC 10mVAC/AAC 1mVAC/AAC	<1°			Lead	2116.33	
	JM810A	2000:2	1 to 2000A	–	1mAAC/AAC	–	<0.5°	2.52" (64mm)	1.97 x 5.31" (50 x 135mm) 2.52 x 3.94" (64 x 100mm)	Lead	2110.80	
	JM813	3000:3	1 to 2400A	–	1mAAC/AAC	–	<0.5°			Jack	2110.93	
	JM830A	3000:1	1 to 2400A	–	.333mAAC/AAC	–	<0.5°			Lead	2110.83	
	JM850A	1000:1 2000:1 3000:1	1 to 1000A 1 to 2000A 1 to 2400A	–	1mAAC/AAC .5mAAC/AAC .333mAAC/AAC	–	<0.5°			Jack	2110.87	
	JM865A	1000:5 2000:5 3000:5	1 to 1000A 1 to 2000A 1 to 2400A	–	5mAAC/AAC 2.5mAAC/AAC 1.67mAAC/AAC	–	<0.5°			Jack	2110.88	

**Diode Protection for open secondary (Output)*
***Phase shift indicated at maximum rating*
****Consult factory for NIST Calibration price*
Note: SR series probes are UL approved.

All current probes are available online on our AEMC storefront.

▶OUTPUT TERMINATIONS

Lead with BNC

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

Jack

Two standard safety banana jacks (4mm)

Leads

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

Shrouded Banana Plugs

Two 4mm safety banana plugs; standard ¾" (19mm) spacing