

Current Measurement Probes

Five questions for selecting the proper Current Measurement Probe

- Do you need to measure AC or DC current or both?
- What is the maximum current you want to measure?
- What is the largest size of the conductor you need to clamp on to?
- Do you need a mV or mA output from the probe?
- What output termination is required (lead with BNC, lead with 4mm safety banana plugs or jacks to accept 4mm leads)?

DC/AC MicroProbes



- Measures extremely low level DC from 100 μ A
- 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

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
- EN 61010, 1000V CAT III, 600V CAT IV, Pollution Degree 2
- CE Mark

JM Series AC Current Probes



- Current range: up to 3000Aac (continuous cycle for the full temperature range)
- Output: 1mA/A to 100mVAc/Aac
- Designed for use on DMMs, power and harmonic meters, recorders of instruments with AC current ranges
- 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 500MCM
- Works as a traditional current transformer with ratio of 1000:1
- 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

MN200 & MN300 Series AC Current Probes



- Small, compact size
- Measurement range of 100mA to 240Aac
- Jaw opening accommodates conductors up to 250MCM
- 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
- Designed to EN 61010, 600V CAT III safety standards
- 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
- EN 61010, 600V CAT III, 300V CAT IV, Pollution Degree 2
- CE Mark

SL Series AC/DC Current Probes



- Low AC and DC measurements
- 50mA to 120Aac/150Adc
- 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

SR Series Current Probes



- Measurement range of 100mA to 1200Aac
- Large jaw opening accommodates up to two 500MCM 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
- Designed to EN 61010, 600V CAT III safety standards
- CE Mark, UL approved

Note: Product image size not proportionate.

Not all models are CE and UL approved; please consult factory.

Oscilloscope & BNC Terminated Probes



Model SL261



Model MN261



Model MR461



Model MR561



Model SR661



Model JM861





Model	Measurement Range		Output Signal Voltage	Phase Shift*	Maximum Conductor Size		Output Connection
	AC	DC			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
MN261	0.1 to 24A 0.5 to 240A	–	100mVAC/AAC 10mVAC/AAC	<2.5°	0.78" (19.8mm)	N/A	Lead w/BNC
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
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. Not all models are UL approved; please consult factory.

CATALOG NO.	DESCRIPTION	PRICE	NIST CALIBRATION
1201.51	AC/DC Current Probe Model SL261 (10A-100mV/A, 100A-10mV/A, BNC)	\$449.00	\$94.00
2115.82	AC Current Probe Model MN261 (24A-100mV/A, 240A-10mV/A, BNC)	\$179.00	\$65.00
1200.72	AC Current Probe Model MR461 (60A-10mV/A, 600A-1mV/A, BNC)	\$359.00	\$65.00
1200.73	AC Current Probe Model MR561 (150A-10mV/A, 1500-1mV/A, BNC)	\$399.00	\$65.00
2113.49	AC Current Probe Model SR661 (10A-100mV/A, 100A-10mV/A, 1000A-1mV/A, BNC)	\$299.00	\$75.00
2110.90	AC Current Probe Model JM861 (30A-10mV/A, 300A-1mV/A, 3000A-0.1mV/A, BNC)	\$495.00	\$98.00

General Purpose Probes



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	0.47" (12mm)	N/A	Lead	2129.17	\$79.00		
	MN02	1000:1	50mA to 100A 50mA to 90A	–	1mA/A	–	N/A	0.39" (10mm)	N/A	Lead	2129.20	\$109.00		
	MN03	–	2 to 100A	–	–	1mV/A	N/A	0.47" (12mm)	N/A	Lead	2129.18	\$89.00		
	MN05	–	5mAac to 10Aac 1 to 100Aac	–	–	1mVac/mAac 1mVac/Aac	N/A			Lead	2129.19	\$99.00		
	MN103	–	1mA to 10A 1 to 100A	–	–	1mVac/mAac 1mVac/Aac	N/A			Lead	1031.02	\$184.00		
	MN106	1000:1	2 to 150A	–	1mAac/Aac	–	<10°			Lead	1031.17	\$159.00		
	MN114	–	1mA to 10A	–	–	100mVac/Aac	<8°			Lead	2110.71	\$179.00		
	MN185	1000:1	50mA to 150A	–	1mAac/Aac	–	<3.5°			Jack	100.185	\$124.00		
	MN213	1000:1	0.5 to 240A	–	1mAac/Aac*	–	<2.5°			0.78" (19.8mm)	N/A	Lead	2115.75	\$119.00
	MN251	–	0.5 to 240A	–	–	1mVac/Aac	<2.5°					Lead	2115.77	\$139.00
	MN253	–	0.5 to 240A	–	–	10mVac/Aac	<2.5°	Lead	2115.79			\$139.00		
	MN255	–	0.1 to 24A 0.1 to 240A	–	–	100mVac/Aac 10mVac/Aac	<2.5°	Lead	2115.81			\$149.00		
	MN291	–	0.5 to 240A	–	–	100mVdc/Aac	N/A	Lead	2115.84			\$129.00		
	MN307	–	10mA to 12A	–	–	100mV/Aac	<2.5°	0.78" (19.8mm)	N/A	Lead	2116.23	\$179.00		
	MN312	1000:1	0.1 to 200A	–	1mAac/Aac	–	<2.5°			Jack	2116.24	\$159.00		
	MN313	1000:1	0.1 to 200A	–	1mAac/Aac	–	<2.5°			Lead	2116.25	\$169.00		
	MN352	–	0.1 to 150A	–	–	10mV/Aac	<2.5°			Jack	2116.26	\$169.00		
	MN353	–	0.1 to 150A	–	–	10mV/Aac	<2.5°			Lead	2116.27	\$189.00		
	MN373	–	0.01 to 2.4A 0.1 to 200A	–	–	1000mV/Aac 10mV/Aac	<3°			Lead	2116.28	\$199.00		
	MN375	–	0.1 to 10A	–	–	100mV/Aac	<1.5°			Lead	2115.41	\$219.00		
		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	\$175.00		
	MD304	100:1	1 to 600A	–	10mAac/Aac	–	<3°			Lead	1201.37	\$269.00		
	MD305	1000:1	1 to 600A	–	1mAac/Aac	–	<1°			Lead	1201.36	\$259.00		



*Phase shift indicated at maximum rating

**Consult factory for NIST Calibration price

Note: Only Models MN103, MN106, MN114 & MN185 are not CE. MN200 & MN300 series probes are UL approved.



General Purpose Probes

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	\$159.00
	SR601	1000:1	0.1 to 1000A	–	1mAac/Aac*	–	<0.5°			Jack	2113.43	\$179.00
	SR604	1000:1	0.1 to 1000A	–	1mAac/Aac*	–	<0.5°			Lead	2113.44	\$189.00
	SR632	1000:5	0.1 to 1000A	–	5mAac/Aac*	–	<1°			Lead	2114.79	\$239.00
	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	\$249.00
	SR651	–	0.1 to 1000A	–	–	1mVac/Aac	<0.5°			Jack	2113.45	\$179.00
	SR701	1000:1	1mA to 1000A	–	1mAac/Aac*	–	<0.5°			Jack	2116.29	\$229.00
	SR704	1000:1	1mA to 1000A	–	1mAac/Aac*	–	<0.5°			Lead	2116.30	\$239.00
	SR752	–	0.1 to 1000A	–	–	1mVac/Aac	<0.7°			Lead	2116.32	\$299.00
	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	\$299.00
	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	\$474.00
	JM813	3000:3	1 to 2400A	–	1mAac/Aac	–	<0.5°			Jack	2110.93	\$474.00
	JM830A	3000:1	1 to 2400A	–	.33mAac/Aac	–	<0.5°			Lead	2110.83	\$474.00
	JM850A	1000:1 2000:1 3000:1	1 to 1000A 1 to 2000A 1 to 2400A	–	1mAac/Aac .5mAac/Aac .33mAac/Aac	–	<0.5°			Jack	2110.87	\$495.00
	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	\$495.00

*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.

Output Terminations



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



Jacks:
 Two standard safety banana jacks (4mm)



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



Shrouded Banana Plugs:
 Two 4mm safety banana plugs; standard 3/4" (19mm) spacing