

CURRENT PROBE SELECTION CHART

AEMC offers a comprehensive line of clamp-on current probes that covers the entire spectrum of applications, from electrical panels to substations.

AEMC Current Probes measure current without interrupting the circuit under test and extend the measuring capabilities of DMMs, recorders, power meters and loggers.

Features

- Current ranges 50 μ A to 30,000Arms
- Measures both AC, DC and AC/DC
- Used with DMMs, oscilloscopes, data loggers, handheld scopes and power meters
- Voltage or current output
- Output connections; jacks, leads or BNC
- Flexible and fixed jaw models
- UL & CUL approved (model dependent)
- EN 61010, 600V Cat. III rated (model dependent)

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



Flexibility to easily measure where standard clamp-ons cannot.



Model MD301 measuring AC current on a feeder.



Model JM810A measuring current on a main branch circuit.



CURRENT PROBE SELECTION CHART






K Series 	General Purpose Probes												
	Model	Ratio	Measurement Range		Output Signal		Maximum Conductor Size		Output Termination	Catalog No.	Price		
			AC	DC	Current	Voltage	∅ Cable	Bus Bar					
K100	—	0 to 3Arms	0 to ±4.5A	—	1mV/mAac/dc	0.18" (4.5mm)	N/A	Shrouded Banana Plugs	1200.67	\$559.00			
	K110	—	0 to 300mA	0 to ±450mA	—			10mV/mAac/dc	Shrouded Banana Plugs	2111.73	\$599.00		
MN100 Series 	MN103	—	1mA to 10A 1A to 100A	—	—	0.47" (12mm)	N/A	Lead	1031.02	\$159.00			
	MN106	1000:1	2A to 150A	—	1mAac/Aac			—	Lead	1031.17	\$105.00		
	MN114	—	1mA to 10A	—	—			100mVAc/Aac	Lead	2110.71	\$139.00		
	MN185	1000:1	50mA to 150A	—	1mAac/Aac	—	0.43" (11mm)	N/A	Jack	100.185	\$99.00		
MN200 & MN300 Series 	MN210	1000:1	0.5A to 240A	—	1mAac/Aac	0.78" (20mm)	0.78 x 0.19" (20 x 5mm)	Jack	2115.72	\$89.00			
	MN211	1000:1	0.5A to 240A	—	1mAac/Aac			—	Lead	2115.73	\$99.00		
	MN212	1000:1	0.5A to 240A	—	1mAac/Aac*			—	Jack	2115.74	\$99.00		
	MN213	1000:1	0.5A to 240A	—	1mAac/Aac*			—	Lead	2115.75	\$109.00		
	MN250	—	0.5A to 240A	—	—			1mVAc/Aac	Jack	2115.76	\$99.00		
	MN251	—	0.5A to 240A	—	—			1mVAc/Aac	Lead	2115.77	\$109.00		
	MN252	—	0.5A to 150A	—	—			10mVAc/Aac	Jack	2115.78	\$119.00		
	MN253	—	0.5A to 150A	—	—			10mVAc/Aac	Lead	2115.79	\$129.00		
	MN254	—	0.1A to 24A 0.1A to 240A	—	—			100mVAc/Aac 10mVAc/Aac	Jack	2115.80	\$129.00		
	MN255	—	0.1A to 24A 0.1A to 240A	—	—			100mVAc/Aac 10mVAc/Aac	Lead	2115.81	\$139.00		
	MN290	—	0.5A to 240A	—	—			100mVdc/Aac	Jack	2115.83	\$109.00		
	MN291	—	0.5A to 240A	—	—			100mVdc/Aac	Lead	2115.84	\$119.00		
	MN306	—	10mA to 12A	—	—			100mVAc/Aac	0.78" (20mm)	0.78 x 0.19" (20 x 5mm)	Jack	2116.22	\$134.00
	MN307	—	10mA to 12A	—	—			100mVAc/Aac			Lead	2116.23	\$144.00
	MN312	1000:1	0.1A to 200A	—	1mAac/Aac*			—			Jack	2116.24	\$129.00
	MN313	1000:1	0.1A to 200A	—	1mAac/Aac*			—			Lead	2116.25	\$139.00
MN352	—	0.1A to 150A	—	—	10mV/Aac	Jack	2116.26	\$139.00					
MN353	—	0.1A to 150A	—	—	10mV/Aac	Lead	2116.27	\$149.00					
MN373	—	0.01A to 2.4A 0.1A to 240A	—	—	1000mV/Aac 10mV/Aac	Lead	2116.28	\$139.00					
MN375	—	0.1A to 10A	—	—	100mV/Aac	Lead	2115.41	\$179.00					
SL Series 	SL201	—	50mA to 1.5A 500mA to 120A	50mA to 2A 500mA to 150A	—	1mV/mAac/dc 1mV/Aac/dc	0.46" (12mm)	N/A	Lead	1201.40	\$344.00		
	SL206	—	10mA to 1.5A 50mA to 60A	10mA to 2A 50mA to 80A	—	1mV/mAac/dc 10mV/Aac/dc			Lead	1201.45	\$354.00		

*Diode Protection for open secondary (Output)
 **Phase shift indicated at maximum rating.
 Not all models are UL approved; please consult factory.
 Product size not proportionate. See page one.



CURRENT PROBE SELECTION CHART



MD Series 	General Purpose Probes (continued)										
	Model	Ratio	Measurement Range		Output Signal		Maximum Conductor Size		Output Termination	Catalog No.	Price
			AC	DC	Current	Voltage	Ø Cable	Bus Bar			
	MD301	—	2A to 500A	—	—	1mV _{DC} /AAC	1.18" (30mm) 2 x 500MCM	2.48 x 0.20" (63 x 5mm)	Lead	1201.07	\$139.00
	MD303	1000:1	4A to 500A	—	1mA _{AC} /AAC	—			Lead	1201.21	\$119.00
	MD304	100:1	1A to 600A	—	10mA _{AC} /AAC	—			Lead	1201.37	\$199.00
	MD305	1000:1	1A to 600A	—	1mA _{AC} /AAC	—			Lead	1201.36	\$199.00
	MD314	—	4A to 500A	—	—	1mV _{AC} /AAC			Lead	2110.75	\$139.00
MR400 & MR500 Series 	MR410	—	1A to 400A	1A to 600A	—	1mV/AAC/DC	1.18" (30mm) Two 0.95" (24mm) 2 x 500MCM	Two 1.2 x 0.4" (31.5 x 10mm)	Lead	1200.70	\$164.00
	MR411	—	0.2A to 40A 0.5A to 400A	0.4A to 60A 0.5A to 600A	—	10mV/AAC/DC 1mV/AAC/DC	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	1200.68	\$219.00
	MR520	—	1A to 1000A	1A to 1500A	—	1mV/AAC/DC			Lead	1200.71	\$214.00
	MR521	—	0.2A to 100A 0.5A to 1000A	0.4A to 150A 0.5A to 1500A	—	10mV/AAC/DC 1mV/AAC/DC	Lead	1200.69	\$264.00		
SR600 & SR700 Series 	SR600	1000:1	0.1A to 1000A	—	1mA _{AC} /AAC	—	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Jack	2113.42	\$159.00
	SR601	1000:1	0.1A to 1000A	—	1mA _{AC} /AAC*	—			Jack	2113.43	\$179.00
	SR604	1000:1	0.1A to 1000A	—	1mA _{AC} /AAC*	—			Lead	2113.44	\$189.00
	SR631	1000:5	0.1A to 1000A	—	5mA _{AC} /AAC*	—			Jack	2113.47	\$219.00
	SR632	1000:5	0.1A to 1000A	—	5mA _{AC} /AAC*	—			Lead	2114.79	\$229.00
	SR634	250:5 500:5 1000:5	1A to 250A 1A to 500A 1A to 1000A	—	20mA _{AC} /AAC* 10mA _{AC} /AAC 5mA _{AC} /AAC	—			Jack	2113.48	\$239.00
	SR651	—	0.1A to 1000A	—	—	1mV _{AC} /AAC	Jack	2113.45	\$179.00		
	SR652	—	0.1A to 1000A	—	—	1mV _{AC} /AAC	Lead	2113.46	\$189.00		
	SR701	1000:1	1mA to 1000A	—	1mA _{AC} /AAC*	—	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Jack	2116.29	\$209.00
	SR704	1000:1	1mA to 1000A	—	1mA _{AC} /AAC*	—			Lead	2116.30	\$219.00
	SR751	—	1mA to 1000A	—	—	1mV _{AC} /AAC			Jack	2116.31	\$209.00
	SR752	—	1mA to 1000A	—	—	1mV _{AC} /AAC			Lead	2116.32	\$219.00
	SR759	—	1mA to 1A 10mA to 10A 0.1A to 100A 1A to 1000A	—	—	1000mV _{AC} /AAC 100mV _{AC} /AAC 10mV _{AC} /AAC 1mV _{AC} /AAC			Lead	2116.33	\$299.00

*Diode Protection for open secondary (Output)


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Product size not proportionate. See page one.

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JM Series	General Purpose Probes (continued)										
	Model	Ratio	Measurement Range		Output Signal		Maximum Conductor Size		Output Termination	Catalog No.	Price
			AC	DC	Current	Voltage	∅ Cable	Bus Bar			
	JM800A	1000:1	1A to 1000A	—	1mA _{AC} /A _{AC}	—	2.52" (64mm)	1.97 x 5.31" (50 x 135mm) 2.52 x 3.94" (64 x 100mm)	Lead	2110.79	\$325.00
	JM810A	2000:2	1A to 2000A	—	1mA _{AC} /A _{AC}	—			Lead	2110.80	\$350.00
	JM813	3000:3	1A to 2400A	—	1mA _{AC} /A _{AC}	—			Jack	2110.93	\$395.00
	JM815A	1000:5	1A to 1000A	—	5mA _{AC} /A _{AC}	—			Lead	2110.81	\$350.00
	JM830A	3000:1	1A to 2400A	—	.33mA _{AC} /A _{AC}	—			Lead	2110.83	\$395.00
	JM835A	3000:5	1A to 2400A	—	1.6mA _{AC} /A _{AC}	—			Lead	2110.84	\$395.00
	JM840A	500:1	1A to 500A	—	2mA _{AC} /A _{AC}	—			Jack	2110.85	\$395.00
		1000:1	1A to 1000A		1mA _{AC} /A _{AC}						
		1500:1	1A to 1500A		.66mA _{AC} /A _{AC}						
	JM850A	1000:1	1A to 1000A	—	1mA _{AC} /A _{AC}	—			Jack	2110.87	\$395.00
		2000:1	1A to 2000A		.5mA _{AC} /A _{AC}						
		3000:1	1A to 2400A		.33mA _{AC} /A _{AC}						
JM865A	1000:5	1A to 1000A	—	5mA _{AC} /A _{AC}	—	Jack	2110.88	\$395.00			
	2000:5	1A to 2000A		2.5mA _{AC} /A _{AC}							
	3000:5	1A to 2400A		1.66mA _{AC} /A _{AC}							
JM875	—	100mA to 30A 1A to 300A 1A to 2000A	—	—	100mV _{AC} /A _{AC} 10mV _{AC} /A _{AC} 1mV _{AC} /A _{AC}	Jack	2110.89	\$395.00			

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CURRENT PROBE SELECTION CHART



Model SL261



Model MN261



Model MR461



Model MR561



Model SR661



Model JM861




Oscilloscope & BNC Terminated Probes

Model	Ratio	Measurement Range		Output Signal		Maximum Conductor Size		Output Termination	Catalog No.	Price
		AC	DC	Current	Voltage	ø Cable	Bus Bar			
SL261	—	100mA to 10A pk 1 to 100A pk	100mA to 10A 1 to 100A	—	100mV/AAC/DC 10mV/AAC/DC	0.46" (12mm)	N/A	Lead w/ BNC	1201.51	\$419.00
MN261	—	0.1 to 24A 0.1 to 240A	—	—	100mVAC/AAC 10mVAC/AAC	0.78" (20mm)	N/A	Lead w/ BNC	2115.82	\$159.00
MR461	—	0.2 to 40A 0.5 to 400A	0.4 to 60A 0.5 to 600A	—	10mV/AAC/DC 1mV/AAC/DC	One 1.18" (30mm) Two 0.95" (24mm) 2 x 500MCM	Two 1.2 x 0.4" (31.5 x 10mm)	Lead w/ BNC	1200.72	\$299.00
MR561	—	0.2 to 100A 0.5 to 1000A	0.4 to 150A 0.5 to 1500A	—	10mV/AAC/DC 1mV/AAC/DC	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	1200.73	\$349.00
SR661	—	0.1 to 12A 0.1 to 120A 1 to 1200A	—	—	100mVAC/AAC 10mVAC/AAC 1mVAC/AAC	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Lead w/ BNC	2113.49	\$299.00
JM861	—	1 to 90A pk 1 to 900A pk 1 to 9000A pk	—	—	10mVAC/AAC 1mVAC/AAC 0.1mVAC/AAC	2.52" (64mm)	1.97 x 5.31" (50 x 135mm) 2.52 x 3.94" (64 x 100mm)	Lead w/ BNC	2110.90	\$395.00

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Product size not proportionate. See page one.

CURRENT PROBE SELECTION CHART



AmpFlex™ Series	AmpFlex® - Flexible Current Probes						
	Model*	Measurement Range	Output Signal	Sensor Length (inches and mm)	Maximum Conductor Size (inches and mm)	Catalog No.	Price
	300-24-1-10	5 to 300A	10mV/AAC	24 (610)	7.64 (190)	2112.29	\$299.00
	300-24-1-1	5 to 300A	1mV/AAC	24 (610)	7.64 (190)	2112.24	\$299.00
	1000-24-1-1	5 to 1000A	1mV/AAC	24 (610)	7.64 (190)	2112.39	\$299.00
	1000-36-1-1	5 to 1000A	1mV/AAC	36 (910)	11.46 (290)	2112.41	\$349.00
	1000-24-2-1	5 to 100/1000A	10/1mV/AAC	24 (610)	7.64 (190)	2112.98	\$319.00
	1000-36-2-1	5 to 100/1000A	10/ mV/AAC	36 (910)	11.46 (290)	2113.00	\$369.00
	3000-24-1-1	5 to 3000A	1mV/AAC	24 (610)	7.64 (190)	2112.46	\$319.00
	3000-36-1-1	5 to 3000A	1mV/AAC	36 (910)	11.46 (290)	2112.48	\$369.00
	3000-24-2-0.3	5 to 300/3000A	3.3/0.3mV/AAC	24 (610)	7.64 (190)	2114.87	\$329.00
	3000-36-2-0.3	5 to 300/3000A	3.3/0.3mV/AAC	36 (910)	11.28 (290)	2114.88	\$379.00
	3000-24-2-1	5 to 300/3000A	10/1mV/AAC	24 (610)	7.64 (190)	2113.05	\$339.00
	3000-36-2-1	5 to 300/3000A	10/1mV/AAC	36 (910)	11.46 (290)	2112.00	\$389.00
	3000-48-2-1	5 to 300/3000A	10/1mV/AAC	48 (1220)	15.28 (390)	2112.01	\$439.00
	6000-24-1-0.1	5 to 6000A	0.1mV/AAC	24 (610)	7.64 (190)	2112.62	\$469.00
LongLife AmpFlex™ Series 	6000-24-2-0.1	5 to 600/6000A	1/0.1mV/AAC	24 (610)	7.64 (190)	2113.19	\$469.00
	6000-36-2-0.1	5 to 600/6000A	1/0.1mV/AAC	36 (910)	11.46 (290)	2113.21	\$519.00
	6000-48-2-0.1	5 to 600/6000A	1/0.1mV/AAC	48 (1220)	15.28 (390)	2113.22	\$569.00
	10000-24-1-0.1	5 to 10,000A	0.1mV/AAC	24 (610)	7.64 (190)	2112.70	\$519.00
	10000-36-2-0.1	5 to 1000/10,000A	1/0.1mV/AAC	36 (910)	11.46 (290)	2112.02	\$539.00
<i>*Additional AmpFlex models available upon request - Please consult factory</i>							
FlexProbe® Series	LongLife AmpFlex® - Flexible Current Probes						
	Model	Measurement Range	Output Signal	Sensor Length	Maximum Conductor Size	Catalog No.	Price
	LGLF 1000-24-1-1	5 to 1000A	1mV/A	24 (610)	7.64 (190)	2120.66	\$399.00
	LGLF 1000-24-2-1	5 to 1000A	10mV/A & 1mV/A	24 (610)	7.64 (190)	2120.67	\$419.00
	LGLF 1000-36-1-1	5 to 3000A	0.333mV/A	36 (910)	11.46 (290)	2120.68	\$469.00
	LGLF 1000-36-2-1	5 to 3000A	3.33mV/A & 0.333mV/A	36 (910)	11.46 (290)	2120.69	\$489.00
FlexProbe® Series	FlexProbe® - Flexible Current Probes						
	Model	Measurement Range	Output Signal	Sensor Length	Maximum Conductor Size	Catalog No.	Price
	24-3001 (Lead)	5 to 300/3000A	4000mV peak max	24 (610)	7.64 (190)	2120.81	\$229.00
	24-3002 (Jack)	5 to 300/3000A	4000mV peak max	24 (610)	7.64 (190)	2120.67	\$229.00

Note: Product size not proportionate.

Output Terminations



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



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



Jacks:
Two standard safety banana jacks (4mm)



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



Call the AEMC® Instruments Technical Assistance Hotline for immediate consultation with an applications engineer: **(800) 343-1391**

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