

CURRENT MEASUREMENT PROBES

K SERIES AC/DC MICROPROBE

300 V
CAT II



MODELS K100 & K110

Ultra-compact AC/DC microprobes for high-accuracy low-current measurement — designed for circuits and components where even a small clamp is too large.



FEATURES

- Measures both AC and DC currents simultaneously with no mode switching required — output signal is proportional to total current (AC + DC)
- Measures from 0 up to 3 A_{AC} / ± 4 A_{DC} (Model K100) or 300 mA_{AC} / ± 400 mA_{DC} (Model K110), with typical resolution down to 100 μ A (Model K100) and 50 μ A (Model K110) — ideal for detecting leakage, standby, and control currents
- High output signal of 1 mV/mA (Model K100) or 10 mV/mA (Model K110) with low output noise for clean, accurate display of low-amplitude waveforms on oscilloscopes and DMMs
- Jaw opening of just 0.18 in (4.5 mm) allows measurement on fine wires and component leads not accessible by any other clamp-type probe
- Red LED overload indicator and green LED battery/power status; 9 V battery with 20-hour life; simple plug-in operation with no range or mode switching

PRODUCT INCLUDES

CAT. #1200.67 AC/DC MICROPROBE MODEL K100

CAT. #2111.73 AC/DC MICROPROBE MODEL K110

Electronic plug-in module with an attached current probe, 9 V battery, and user manual.

MODELS	K100	K110
ELECTRICAL		
AC Range	(0 to 3) A _{RMS}	(0 to 300) mA _{RMS}
DC Range	0 to ± 4 A	0 to ± 400 mA
Output Signal	1 mV/mA	10 mV/mA
Resolution	Mfg. Before 04/01/24 DC: 50 µA typical AC: 100 µA typical	
	Mfg. After 04/01/24 DC: 100 µA typical AC: 200 µA typical	Mfg. After 04/01/24 DC: 50 µA typical AC: 150 µA typical
Typical Accuracy	Mfg. Before 04/01/24 DC: 1 % Reading ± 200 µA AC: 2 % Reading ± 200 µA	Mfg. Before 04/01/24 DC: (1 to 450) mA: 0.5 % Reading ± 150 µA AC: 0.8 % Reading ± 200 µA
	Mfg. After 04/01/24 DC: 1 mA to 2 A: 1 % Reading ± 300 µA (2 to 4) A: 2 % Reading ± 500 µA AC: 2 % Reading ± 500 µA	Mfg. After 04/01/24 DC: (1 to 200) mA: 0.5 % Reading ± 150 µA (200 to 400) mA: 1.5 % Reading ± 200 µA AC: 1 % Reading ± 300 µA
Frequency Range / Bandwidth	DC to 2 kHz	DC to 1.2 kHz
MECHANICAL		
Max Conductor Size	Ø 0.18 in (4.5 mm)	
Output Termination	4 mm safety banana plugs	
POWER		
Power Supply	9 V alkaline battery	
Battery Life	20 h	
SAFETY		
Safety Rating	300 V CAT II	
Ingress Protection	IP40	
COMPATIBILITY		
Compatible Instruments	DMMs, Oscilloscopes	

Consult factory for NIST Calibration prices.

See aemc.com for Accessories/Replacements

CAT. #	DESCRIPTION
1200.67	AC/DC MicroProbe Model K100 (4.5 A, 1 mV/mA)
2111.73	AC/DC MicroProbe Model K110 (450 mA, 10 mV/mA)



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Technical Assistance (800) 343-1391

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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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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 mVdc/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 mVdc/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 mVdc/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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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) mA Arms	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