

CURRENT MEASUREMENT PROBES

AC CURRENT PROBE

600 V
CAT III

300 V
CAT IV



MODEL MD361

Rugged hook-jaw AC current probe designed for VFD troubleshooting, power quality analysis, and industrial current measurements.



SCAN TO
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MORE

Universal BNC-equipped
oscilloscope compatibility

FEATURES

- **Unique hook-shaped jaw** pries into tight spaces and hooks onto cables and bus bars, handling cables up to $\varnothing$ 1.18 in (30 mm) and bus bars up to (2.48 × 0.20) in (63 × 5) mm
- BNC output (1 mV/A into a 50 Ω insulated lead) connects directly to **oscilloscopes**, and to DMMs with a BNC-to-banana adapter
- Wide 5 Hz to 10 kHz bandwidth **captures low-frequency VFD fundamentals and higher-order harmonics** — great for power quality and harmonic analysis on drives and distribution circuits
- **Measures (1 to 500) A_{ac} continuously** (700 A max), with 700 A / 10 min overload withstand for demanding industrial loads
- **Rated 600 V CAT III / 300 V CAT IV** — strong polycarbonate housing built for industrial environments

COMMON APPLICATIONS

- **Electrical distribution and switchgear** — Easy to use hook style jaw for feeders, bus bars, and panelboard conductors (up to $\varnothing$ 30 mm / 1.18 in) to measure load current from (1 to 500) A (700 A max) and balance phases live, without breaking the circuit.
- **Variable frequency drive (VFD) & motor output** — The 5 Hz to 10 kHz bandwidth reaches below the (40 to 48) Hz floor of standard clamp probes, so it captures low-speed VFD fundamental current plus switching harmonics. Feed the BNC output to an oscilloscope (or a wide-bandwidth true-RMS DMM via a BNC-to-banana adapter) to check drive output balance and motor loading.
- **Power quality and harmonic analysis** — The flat 5 Hz to 10 kHz response and 1 mV/A output suit capturing harmonic currents, inrush, and transient events on distribution circuits with a scope or harmonics-capable meter.

MODEL	MD361
ELECTRICAL	
AC Range	(1 to 500) A; 700 A max
Output Signal	1 mV/A
Typical Accuracy	2 % + 0.3 A (range dependent)
Frequency Range / Bandwidth	5 Hz to 10 kHz
Phase Shift	1° (100 to 500) A 3° (20 to 100) A
Overload	700 A for 10 min
MECHANICAL	
Max Conductor Size	Cable: $\varnothing$ 1.18 in (30 mm) Busbar: (2.48 × 0.20) in (63 × 5) mm
Output Termination	Lead w/ BNC (50 Ω)
SAFETY	
Safety Rating	600 V CAT III 300 V CAT IV
COMPATIBILITY	
Compatible Instruments	Oscilloscopes, DMMs

Consult factory for NIST Calibration prices.



PRODUCT INCLUDES

CAT #2153.10 AC CURRENT PROBE MODEL MD361 (BNC)

Safety sheet and multilingual user manual.

ACCESSORY

CAT #2119.94 ADAPTER — BNC Female to 4 mm Banana Male

Adapter to use with Digital Multimeters.



CAT. # DESCRIPTION

2153.10 AC Current Probe Model MD361 (BNC)



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CURRENT MEASUREMENT PROBES

GENERAL PURPOSE PROBES SELECTION CHART

Series	Model	Ratio	Measurement Range		Output Signal		Phase Shift**	Maximum Conductor Size		Output Connection	CAT. #
			AC	DC	Current	Voltage		Ø Cable	Bus Bar		
	MN01	1000:1	(2 to 150) A	—	1 mA/A*	—	N / A	0.39 in (10 mm)	N / A	Leads	2129.17
	MN02	1000:1	50 mA to 100 A 50 mA to 90 A	—	1 mA/A*	—	N / A	0.39 in (10 mm)	N / A	Leads	2129.20
	MN05	—	5 mA to 10 A (1 to 100) A	—	—	1 mV/mA 1 mV/A	N / A	0.39 in (10 mm)	N / A	Leads	2129.19
	MN09	—	(1 to 150) A	—	—	100 mVDC / A _{AC}	N / A	0.39 in (10 mm)	N / A	Leads	2129.21
	MN134	—	1 mA to 10 A	—	—	100 mV/A	< 10°	0.39 in (10 mm)	N / A	Leads	2129.22
	MN185	1000:1	50 mA to 120 A	—	1 mA/A	—	< 3.5°	0.47 in (12 mm)	N / A	Jacks	100.185
	MN255	—	(0.1 to 24) A (0.1 to 240) A	—	—	100 mV/A 10 mV/A	< 2.5°	0.78 in (20 mm)	N / A	Leads	2115.81
	MN261	—	(0.1 to 24) A (0.5 to 240) A	—	—	100 mV/A 10 mV/A	< 6°	0.78 in (20 mm)	N / A	BNC	2115.82
	MN291	—	(0.5 to 240) A	—	—	100 mVDC / A _{AC}	N / A	0.78 in (20 mm)	N / A	Leads	2115.84
	MN307	—	10 mA to 12 A	—	—	100 mV/A	< 2.5°	0.78 in (20 mm)	N / A	Leads	2116.23
	MN312	1000:1	(0.1 to 200) A	—	1 mA/A*	—	< 2.5°	0.78 in (20 mm)	N / A	Jacks	2116.24
	MN352	—	(0.1 to 150) A	—	—	10 mV/A	< 2.5°	0.78 in (20 mm)	N / A	Jacks	2116.26
	MN353	—	(0.1 to 150) A	—	—	10 mV/A	< 2.5°	0.78 in (20 mm)	N / A	Leads	2116.27
	MN373	—	(0.01 to 2.4) A (0.1 to 200) A	—	—	1000 mV/A 10 mV/A	< 3°	0.78 in (20 mm)	N / A	Leads	2116.28
	MN375	—	(0.1 to 10) A	—	—	100 mV/A	< 1.5°	0.78 in (20 mm)	N / A	Leads	2115.41
	MN379	—	5 mA to 6 A (0.1 to 120) A	—	—	200 mV/A 10 mV/A	< 4°	0.78 in (20 mm)	N / A	Leads	2153.01
	MN379T	—	5 mA to 6 A (0.1 to 120) A	—	—	200 mV/A 10 mV/A	< 4°	0.78 in (20 mm)	N / A	Lead w/ BNC	2153.02
	SL306	—	5 mA to 1.5 A 50 mA to 60 A	5 mA to 2 A 50 mA to 80 A	—	1 mV/mA 10 mV/A	< 1°	0.46 in (11.8 mm)	N / A	Leads	2153.08
	SL361	—	100 mA a 10 A peak 500 mA a 100 A peak	—	—	100 mV/A 10 mV/A	< 1°	0.46 in (11.8 mm)	N / A	Lead w/ BNC	2153.09
	MD301	1000:1	(2 to 500) A	—	—	1 mVDC / A _{AC}	N / A	1.18 in (30 mm) (2 × 500) kcmil	(2.48 × 0.20 in) (63 × 5) mm	Leads	1201.07
	MD305	1000:1	(1 to 600) A	—	1 mA/A	—	< 1°	1.18 in (30 mm) (2 × 500) kcmil	(2.48 × 0.20 in) (63 × 5) mm	Leads	1201.36
	MD361	1000:1	(1 to 500) A	—	—	1 mV/A	< 3°	1.18 in (30 mm) (2 × 500) kcmil	(2.48 × 0.20 in) (63 × 5) mm	Lead w/ BNC	2153.10

*Output protection for open secondary.

**Phase shift indicated at maximum rating.

Note: Model MN185 are not CE compliant. MN200 & MN300 series are UL approved except MN379.

Consult factory for NIST Calibration price.

CURRENT MEASUREMENT PROBES

GENERAL PURPOSE PROBES SELECTION CHART

SERIES	MODEL	RATIO	MEASUREMENT RANGE		OUTPUT SIGNAL		PHASE SHIFT**	MAXIMUM CONDUCTOR SIZE		OUTPUT CONNECTION	CAT. #
			AC	DC	CURRENT	VOLTAGE		Ø CABLE	BUS BAR		
	MR415	—	(0.5 to 400) A	(0.5 to 600) A	—	1 mV/A	≤ 1.5 °	1.18 in (30 mm)	2 bus bar (1.24 × 0.39) in (31 × 10) mm	5 ft (1.5 m) Lead	1200.80
	MR416	—	(0.5 to 40) A (0.5 to 400) A	(0.5 to 60) A (0.5 to 600) A	—	10 mV/A 1 mV/A	≤ 2.2 ° ≤ 1.5 °	1.53 in (39 mm)	2 bus bar (1.95 × 0.19) in (50 × 5) mm	5 ft (1.5 m) Lead	1200.82
	MR526	—	(0.5 to 100) A (0.5 to 1000) A	(0.5 to 150) A (0.5 to 1400) A	—	10 mV/A 1 mV/A	≤ 2 ° ≤ 1.5 °	1.53 in (39 mm)	2 bus bar (1.95 × 0.19) in (50 × 5) mm	5 ft (1.5 m) Lead	1200.83
	SR601	1000:1	(0.1 to 1200) A	—	1 mA/A*	—	< 0.5 °	2.05 in (52 mm)	(1.95 × 0.19) in (50 × 5) mm	Jacks	2113.43
	SR604	1000:1	(0.1 to 1200) A	—	1 mA/A*	—	< 0.5 °	2.05 in (52 mm)	(1.95 × 0.19) in (50 × 5) mm	Leads	2113.44
	SR651	—	(0.1 to 1200) A	—	—	1 mV/A	< 0.5 °	2.05 in (52 mm)	(1.95 × 0.19) in (50 × 5) mm	Jacks	2113.45
	SR701	1000:1	1 mA to 1000 A	—	1 mA/A*	—	< 0.7 °	2.05 in (52 mm)	(1.95 × 0.19) in (50 × 5) mm	Jacks	2116.29
	SR704	1000:1	1 mA to 1000 A	—	1 mA/A*	—	< 0.7 °	2.05 in (52 mm)	(1.95 × 0.19) in (50 × 5) mm	Leads	2116.30
	SR752	—	(0.1 to 1000) A	—	—	1 mV/A	< 0.7 °	2.05 in (52 mm)	(1.95 × 0.19) in (50 × 5) mm	Leads	2116.32
	SR759	—	1 mA to 1 A 10 mA to 10 A (0.1 to 100) A (1 to 1000) A	—	—	1000 mV/A 100 mV/A 10 mV/A 1 mV/A	< 1 °	2.05 in (52 mm)	(1.95 × 0.19) in (50 × 5) mm	Leads	2116.33
	K100	—	0.1 mA to 3 A	0.05 mA to ± 4 A	—	1 mV/mA	N / A	0.18 in (4.5 mm)	N / A	Plugs	1200.67
	K110	—	(0.1 to 300) mA	(0.05 to ± 400) mA	—	10 mV/mA	N / A	0.18 in (4.5 mm)	N / A	Plugs	2111.73
	LM102	1000:1	50 mA to 200 A	—	1 mA/A*	—	< 3 °	0.63 in (16 mm)	N / A	Leads	2153.04
	LM103	—	(0.1 to 200) A	—	—	1 mV/A	< 3 °	0.63 in (16 mm)	N / A	Leads	2153.05

*Output Protection for open secondary.

**Phase shift indicated at maximum rating.

Note: All SR probes listed on this chart are UL approved, however not all SR series probes are UL approved; please consult factory.

Consult factory for NIST Calibration price.

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

AMPFLEX® AND MINIFLEX® PROBES - SELECTION CHARTS

SERIES	MODEL	RATIO	MEASUREMENT RANGE	OUTPUT SIGNAL	MAXIMUM CONDUCTOR SIZE	CAT. #
	MF 300-10-2-10-HF	—	(30 / 300) A	100 mV/A, 10 mV/A	2.95 in (75 mm)	2126.84
	MF 3000-14-1-1-HF	—	3000 A	1 mV/A	3.93 in (100 mm)	2126.86
	MA114	—	(3 / 30 / 300 / 3000) A	1 mV/mA, 100 mV/A 10 mV/A, 1 mV/A	4 in (101 mm)	2153.41
	300-24-2-10	—	(30 / 300) A	100 mV/A, 10 mV/A	7.48 in (190 mm)	2112.88
	1000-24-1-1	—	1000 A	1 mV/A	7.48 in (190 mm)	2112.39
	1000-24-2-1	—	(100 / 1000) A	10 mV/A, 1 mV/A	7.48 in (190 mm)	2112.98
	1000-36-2-1	—	(100 / 1000) A	10 mV/A, 1 mV/A	11 in (280 mm)	2113.00
	3000-24-1-1	—	3000 A	1 mV/A	7.48 in (190 mm)	2112.46
	3000-36-1-1	—	3000 A	1 mV/A	11 in (280 mm)	2112.48
	3000-24-2-1	—	(300 / 3000) A	10 mV/A, 1 mV/A	7.48 in (190 mm)	2113.05
	3000-48-2-1	—	(300 / 3000) A	10 mV/A, 1 mV/A	15 in (381 mm)	2112.01
	6000-36-2-0.1	—	(600 / 6000) A	1 mV/A, 0.1 mV/A	11 in (280 mm)	2113.21
	30000-24-2-0.1	—	(3000 / 30,000) A	1 mV/A, 0.1 mV/A	7.48 in (190 mm)	2113.33
	24-3001	—	300 A / 3000 A _{AC}	10 mV/A, 1 mV/A	7.48 in (190 mm)	2120.81

Consult factory for NIST Calibration price.

OSCILLOSCOPE & BNC TERMINATED PROBES

MODEL	MEASUREMENT RANGE		OUTPUT SIGNAL	PHASE SHIFT*	MAXIMUM CONDUCTOR SIZE		OUTPUT CONNECTION
	AC	DC	VOLTAGE		Ø CABLE	BUS BAR	
 SL361	(0.1 to 100) A		100 mV/A 10 mV/A	< 1.5 °	0.46 in (11.8 mm)	N / A	6.5 ft (2 m) Lead w/BNC
 MN261	(0.1 to 24) A (0.5 to 240) A	—	100 mV/A 10 mV/A	< 2.5 °	0.78 in (20 mm)	N / A	6.5 ft (2 m) Lead w/BNC
 SR661	(0.1 to 12) A (0.1 to 120) A (1 to 1200) A	—	100 mV/A 10 mV/A 1 mV/A	< 1 °	2.05 in (52 mm)	(1.96 x 0.19) in (50 x 5) mm	6.5 ft (2 m) Lead w/BNC
 MN251T MN379T	(0.5 to 240) A	—	1 mV/A	≤ 2.5 °	0.78 in (20 mm)	(0.78 x 0.19) in (20 x 5) mm	10 ft (3 m) Lead w/BNC
	(0.005 to 6) A (0.1 to 120) A	—	200 mV/A 10 mV/A	≤ 4 ° ≤ 2.2 °	0.78 in (20 mm)	(0.78 x 0.19) in (20 x 5) mm	10 ft (3 m) Lead w/BNC
 MH60	(0.5 to 100) A	(0.5 to 100) A	10 mV/A	< 1 °	1.02 in (26 mm)	N / A	6.6 ft (2 m) Lead w/BNC
 MR417	(0.5 to 40) A (0.5 to 400) A	(0.5 to 60) A (0.5 to 600) A	10 mV/A 1 mV/A	≤ 2.2 ° ≤ 1.5 °	1.18 in (30 mm)	2 bus bar (1.24 x 0.39) in (32 x 10) mm	6.6 ft (2 m) Lead w/BNC
 MR527	(0.5 to 100) A (0.5 to 1000) A	(0.5 to 150) A (0.5 to 1400) A	10 mV/A 1 mV/A	≤ 2.2 ° ≤ 1.5 °	1.53 in (39 mm)	2 bus bar (1.96 x 0.19) in (50 x 5) mm	6.6 ft (2 m) Lead w/BNC
 MD361	1 (1 to 500) A	—	1 mV/A	< 3 °	1.18 in (30 mm)	(2.48 x 0.20) in (63 x 5) mm	6.6 ft (2 m) Lead w/ BNC

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