Leakage Current Meters and Probes

Find It. Fix It. Don't Shut Down.

- Detect leakage current on live circuits — no shutdown required
- Pinpoint insulation failures before they become costly outages
- Precision measurement from micro-amps to hundreds of amps
- Solutions for tight spaces, high-current loads, and multi-phase systems
- Works with your existing DMMs, loggers, and oscilloscopes
- From handheld clamp-ons to bench-ready probes — we have the right tool

Our products are backed by over 130 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.

Technical Hotline: (800) 343-1391
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AEMC® INSTRUMENTS
CHAUVIN ARNOUX GROUP

TRMS Leakage Current Meter Model 566

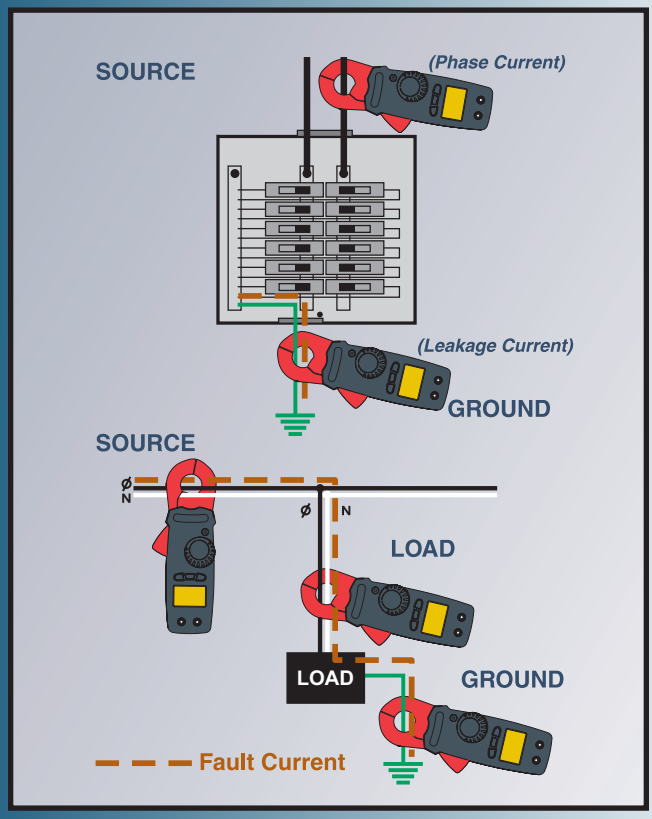
Jaw Opening: .91 in (23 mm)

FEATURES

- Check for leakage and locate insulation breakdowns on live circuits
- Measures leakage current down to 0.001 mA with up to 1 µA resolution
- Measures current up to 60 Arms
- Measures up to 600 $V_{AC/DC}$
- Measures Hz on either V or A inputs
- Measures resistance and continuity
- Hold feature freezes value
- MAX feature keeps track of highest measured in-rush value
- Zero button ideal for measuring relative values
- Low pass filter to isolate (50/60) Hz fundamental from harmonics
- Compatible with VDE 0404
- Backlight LCD display

The TRMS Clamp-On Leakage Current Meter Model 566 is designed to measure low AC currents, which are typically leakage currents in ground conductors. Low currents are measured in the 60 mA and 600 mA ranges. The high sensitivity of the probe (1 µA, 10 µA and 100 µA) resolution when measuring mA is possible through special jaw construction and, in particular, critical shielding of the jaws. At low measurement levels, shielding out noise is critical for low sensitivity, accuracy, and stability.

The Model 566 can be used as a standard clamp-on meter measuring to 60Arms, as well as VAC and VDC ranges, resistance and continuity with a buzzer. In mAAC and AAC, the user can activate a low-pass filter (LPF) to ignore all currents other than 50/60Hz. In this mode, only the fundamental signal is measured.



TRMS Leakage Current Meter Model 566

SPECIFICATIONS

MODEL		566	
ACmA Current (TRMS, Auto-Ranging)			
Resolution	**6 mA** **60 mA** **600 mA**	0.001 mA (1 µA) 0.01 mA (10 µA) 0.1 mA (100 µA)	
Accuracy	**(50 to 60) Hz (6 mA)** **(50 to 60) Hz (60 and 600 mA)**	± 1.0 % of Reading ± 8 cts ± 1.0 % of Reading ± 5 cts	
	(60 to 500) Hz (6 mA) **(60 to 500) Hz (60 mA and 600 mA)**	± 2.0 % of Reading ± 8 cts ± 2.0 % of Reading ± 5 cts	
AC Current (TRMS, Auto-Ranging)			
Resolution	**6 A** **60 A**	1 mA 10 mA	
Accuracy	**(50 to 60) Hz** **(60 to 500) Hz**	± 1.0 % of Reading ± 5 cts ± 2.0 % of Reading ± 5 cts	
AC Voltage (TRMS)			
Accuracy	**60 V** **600 V**	± 1.0 % of Reading ± 3 cts	
DC Voltage			
Resolution	**60 V** **600 V**	0.01 V 0.1 V	
Accuracy	**60 V** **600 V**	± 1.0 % of Reading ± 2 cts	
Resistance		(0 to 1) kΩ	
Accuracy		± 1.0 % of Reading ± 2 cts	
CONTINUITY		Buzzer activates < 45 Ω (0 to 1) kΩ	
Frequency (Auto-Ranging)			
Function		A-Hz	V-Hz
Resolution	**(0 to 100) Hz** **100 Hz to 1 kHz**	0.1 Hz 1 Hz	0.1 Hz 1 Hz
Sensitivity		10 mArms min	5 Vrms min
Accuracy		± 0.5 % of Reading ± 2 cts	
Filter		On (50/60) Hz only; Off (full frequency range)	
MAX Sample Rate		100 ms	
MECHANICAL			
Jaw Opening I Max Conductor Size		0.91 in (23 mm)	
Weight		10.4 oz (296 g) with batteries	
Power Supply		(2) 1.5 V AAA batteries (included)	
ENVIRONMENTAL			
Operating Temperature		(32 to 104) °F (0 to 40) °C; < 80 % RH (non-condensing)	
SAFETY			
Safety Rating		EN 61010-1, EN 61010-2-032, 600 V CAT III	

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PRODUCT INCLUDES

Soft carrying case, (2) color-coded (red/black) 5 ft test leads, (2) 1.5 V AAA (LR03) batteries and user manual.

AC Leakage Current Probe Model 2620

FEATURES

- Very high sensitivity
- Differential or leakage current from 500 µA
- Current up to 400 A
- Two switch-selectable measurement ranges: 4 AAC/400 AAC
- Large inside jaw diameter (> 4 in) allows use on large or multiple conductors
- Work with single-, dual-, and three-phase networks
- Connect directly to DMMs on mV or VAC range

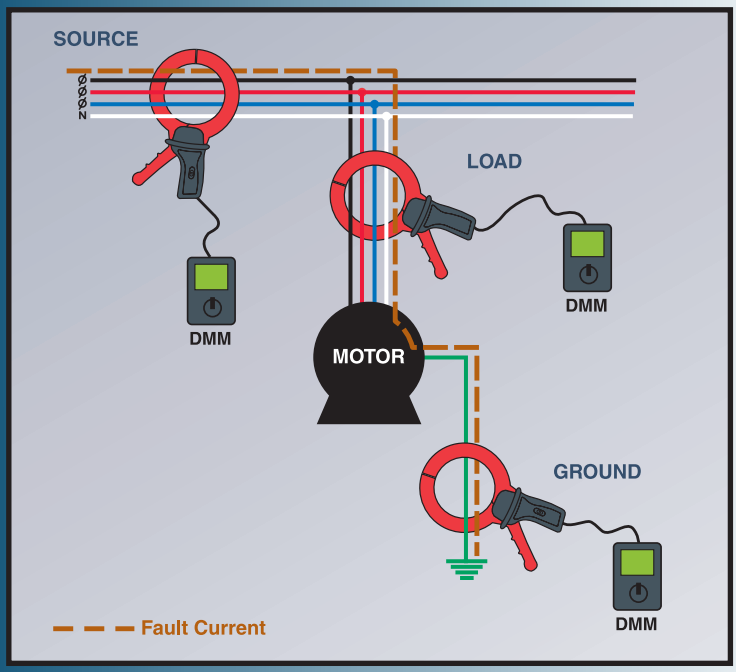
APPLICATIONS

- Preventive maintenance
- Equipment troubleshooting on electrical distribution systems
- High accuracy low-current measurements
- Measure fault currents on three-phase, three-wire systems

The Model 2620 measures leakage current shunted to ground caused by insulation faults. It enables the operator to locate failures when they occur, or anticipate them before they occur, without shutting down equipment or spending hours troubleshooting.

It is designed specifically for locating low current faults on high current loads. The detector is a sensitive nickel alloy AC current transformer capable of measuring differential or leakage current as low as 500 µA, and may be used to measure current up to 400 A continuous duty.

The Model 2620 provides two output ranges: 1 mV/mAac or 1 mV/Aac. The output leads are terminated with standard 4mm banana plugs capable of interfacing with any standard multimeter. With its 4 in jaw opening and range of 500 µA to 200 A, the Model 2620 provides a versatile way to analyze unbalanced current measurements, leakage values on grounding conductors and ground loop currents.



On multi-phase systems, the Model 2620 can be used with a standard multimeter to measure leakage current at the source, the load or at the ground

AC Leakage Current Probe Model 2620

SPECIFICATIONS

MODEL		2620	
ELECTRICAL			
		4 A Range	**400 A Range**
Current Range		500 µA to 4 A	500 mA to 400 A
Output Signal		1 mV/mA (4 V max)	1 mV/A (400 mV max)
Accuracy	**500 µA to 10 mA**	3 % of Reading ± 1 mV	-
	10 mA to 100 mA	0.5 % of Reading ± 0.5 mV	-
	100 mA to 4 A	0.5 % of Reading ± 0.5 mV	-
	500 mA to 10 A	-	0.5 % of Reading ± 0.5 mV
	10 A to 100 A	-	0.35 % of Reading ± 0.5 mV
	100 A to 400 A	-	0.35 % of Reading ± 1 mV
Phase	**10 mA to 100 mA**	< 15 °	-
	100 mA to 4 A	< 10 °	-
	10 A to 100 A	-	< 1 °
	100 A to 400 A	-	< 0.6 °
Load Impedance (DMM)		1 kΩ min	
Frequency Range		48 to 1000 Hz	
Output Termination		5 ft (1.5 m) Lead with 4 mm safety banana plugs	
MECHANICAL			
Dimensions		(11.22 x 6.89 x 1.77) in (285 x 175 x 45) mm	
Jaw Opening		4.4 in (112 mm)	
Maximum Conductor Size		4.4 in (112 mm)	
Weight		2.87 lbs (1300 g)	
ENVIRONMENTAL			
Operating Temperature		(-14 to 131) °F (-10 to 55) °C; 0 to 85 % RH (non-condensing)	
Storage Temperature		(-40 to 158) °F (-40 to 70) °C; 0 to 85 % RH (non-condensing)	
SAFETY			
Safety Rating		EN	
Double Insulation		Yes	
CE Mark		Yes	

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CONSTRUCTION

AC Current Probe Model SR759

FEATURES

- Measurement range of 1 mA to 1200 Aac
- Large jaw opening accommodates conductors up to two 500 MCM conductors
- Ergonomic design and easy operation
- Conforms to EN 61010, 600 V Cat. III safety standard
- Low phase shift for power measurements
- Available with mA output signals
- Designed for DMMs, recorders, loggers, oscilloscopes, power and harmonic meters
- Output terminated with 4 mm safety shrouded banana plugs on 5 ft (1.5 m) leads
- UL approved

SPECIFICATIONS

MODEL	SR759
ELECTRICAL	
Nominal Range	1, 10, 100, 1000 Aac
Measurement Range	1 mA to 1200 Aac
Transformation Ratio	Voltage output
Output Signal	1000, 100, 10, 1 mV/A, (1 Vac @ 1, 10, 100 or 1000 A)
Phase Shift	(1 A Range) (0.1 to 1.2) A: ≤ 10 ° (10 A Range) (0.1 to 1) A: ≤ 5 °; (1 to 12) A: ≤ 2 ° (100 A Range) (1 to 10) A: ≤ 2 °; (10 to 120) A: ≤ 1 ° (1000 A Range) (10 to 100) A: ≤ 2 °; (100 to 1200) A: ≤ 1 °
Overload	1200 A for 15 min ON, 30 min OFF
Frequency Range	30 Hz to 5 kHz; current derating above 1 kHz using the formula: 1000 A x 1/F (in kHz)
Load Impedance	100 kΩ min
Working/Common Mode Voltage	600 V CAT III
Output Termination	5 ft (1.5 m) lead with 4 mm safety banana plugs
MECHANICAL	
Jaw Opening	2.25 in (57 mm) max
Maximum Conductor Size	2.05 in (52 mm)
Maximum Bus Bar Size	(1) (1.95 x 0.19) in (50 x 5) mm
Dimensions	(4.37 x 8.50 x 1.77) in (111 x 216 x 45) mm
Weight	1.21 lb (550 g)
Material	Polycarbonate UL 94
ENVIRONMENTAL	
Operating Temperature	(14 to 122) °F (-10 to 50) °C
Storage Temperature	(-4 to 158) °F (-20 to 70) °C
Operating Relative Humidity	(0 to 90) %
SAFETY	
Electrical	EN 61010-2-32
UL Approval	Yes - United States and Canada

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The SR759 probe is a range selectable probe that offers four switch selectable ranges: 1, 10, 100 or 1000 A. This probe has a voltage output proportional to the current measured in the jaw of the probe. The SR759 has an integral 5 ft (1.5 m) lead terminated by shrouded banana plugs compatible with DMMs and other instruments. The high accuracy, high sensitivity and low phase shift makes this probe an excellent choice for use in a wide range of power quality applications, including very low or leakage current measurements.

AC Current Probe Models MN05 and MN134

Small and compact, ideal complement for any meter to measure AC currents in low-power secondary transformers or industrial applications

MN05 FEATURES

- Clothes pin shape makes them ideal for use in tight areas, such as breaker panels, controller panels or outlets
- Jaw opening accommodates conductors up to 0.39 inch diameter
- Measurements from 5 mA to 100 AAC
- Permits very low AC current measurements
- Compatible with any voltmeter, multimeter, or other current measurement instrument with an input impedance greater than 1 MΩ.

MN134 FEATURES

- Measurement range of up to 10 Arms
- Compatible with any AC multimeter or voltage measurement instrument with an input impedance greater than 1 MΩ.

SPECIFICATIONS

MODEL	MN05	MN134
ELECTRICAL		
Nominal Range	10 AAC; 100 AAC	10 AAC
Measurement Range	5 mA to 10 AAC (1 to 100) AAC	1 mA to 10 AAC
Transformation Ratio	Voltage output	N/A
Output Signal	1 mV/mA, 1 mV/A (10 Vac @ 10 A, 100 mVac @ 100 A)	10 mVAC/AAC (1 V @ 10 A)
Phase Shift	Not specified	< 10 °
Overload	10 A Range: 15 A 100 A Range: 150 A	20 A continuous
Frequency Range	(48 to 500) Hz	(48 to 500) Hz
Load Impedance	≥ 1 MΩ	1 MΩ min
Open Secondary Voltage	-	≤ 30 V
Output Termination	Double/reinforced insulated 5 ft (1.5 m) lead with safety 4 mm banana plug	Double/reinforced insulated 5 ft (1.5 m) lead with safety 4 mm banana plug
MECHANICAL		
Maximum Conductor Size	Ø 0.39 in (10 mm)	Ø 0.39 in (10 mm)
Dimension	(5.12 x 1.5 x 1) in (130 x 38 x 25) mm	(4.43 x 1.48 x 1.02) in (112.5 x 37.5 x 26) mm
Weight	6.35 oz (180 g)	6.35 oz (180 g)
Material	Polycarbonate	Polycarbonate
ENVIRONMENTAL		
Operating Temperature	(14 to 122) °F (-10 to 50) °C	(14 to 122) °F (-10 to 50) °C
Storage Temperature	(-40 to 176) °F (-40 to 80) °C	(-40 to 176) °F (-40 to 80) °C
Operating Relative Humidity	(0 to 85) % RH decreasing linearly above 95 °F (35 °C)	(0 to 85) % RH decreasing linearly above 95 °F (35 °C)
SAFETY		
Safety Rating	IEC 61010-2-32: 300 V CAT IV, 600 V CAT III, Pollution Degree 2	IEC 61010-2-32: 600 V CAT III, Pollution Degree 2
Ingress Protection	IP 40	IP 40

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