AC/DC Current Probe Model MR410



CE

The AEMC® MR Series AC/DC Probes are professional AC/DC current probes designed to extend current measuring capabilities of DMMs, oscilloscopes and other instruments. They are built to the latest safety and performance standards, including the CE Mark and UL approval. Two different hook-shaped jaws are offered, both permitting the user to "pry" or "hook" onto cables (will accept 2 x 500MCM) or even onto small bus bars.

The MR Series probes use Hall effect technology and measure AC and DC current. The electronics and batteries are self-contained in the handles. The output of the AC/DC probes is 1mV/A and 10mV/A. The Model MR410 measures to 400Aac/600Apc. The

Model MR410 is single range with manual zero adjust.

There is no output filtering — True RMS with DC component measurements are possible. Phase shift is excellent, making the Model MR410 well suited for power and power quality applications.

Features

- · Measurement range of 400AAC/600ADC
- · Measurement range of 1000Aac/1500Adc
- · Distinct jaw shapes to be used for hooking or prying around the conductor
- · Auto-zero push button

- Conforms to EN 61010, 600V, Cat. III safety standard
- · Low phase shift for power measurements
- mV output signals
- · Designed for DMMs, recorders, oscilloscopes, power and harmonic meters
- CE Mark

Applications

- DC motors
- Batteries
- · Automobile engine testing
- · Power measuring quality analysis
- · Power load monitoring

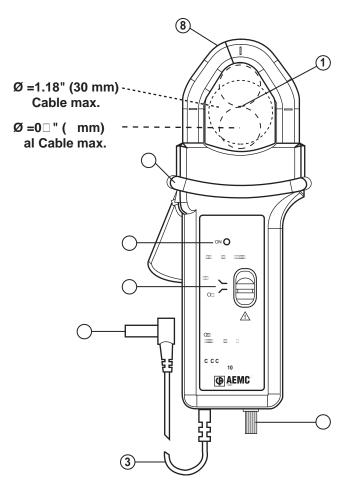


Specifications

MODEL	MR410
ELECTRICAL	
Nominal Range	400Aac/600Adc
Measurement Range	1 to 600A
Output Signal	1mV/A
Accuracy (400A Range)	
1 to 100A	1.5% of Reading ± 1A
100 to 400A	2% of Reading
Phase Shift (400A Range) 10 to 200A	<2.5°
200 too 400A	
Accuracy (600Apc Range)	
400 to 600Apc only	2.5% of Reading
Phase Shift (600Apc Range)	
10 to 100A	-
100 to 400A	
Overload	1000Aac and 2000Adc
	continuous up to 1kHz
Frequency Range	DC to 10kHz @ -3dB
Load Impedance	>100kΩ/100pF
Working/Common Mode Voltage	600Vrms
Battery	9V Alkaline
24	(Approx. 120 hours life)
Output Termination	5 ft Lead
MECHANICAL	
Operating Temperature	14° to 131°F (-10° to 55°C)
Storage Temperature	-40° to 176°F (-40° to 70°C)
Operating Relative Humidity	10 to 35°C 90% \pm 5% RH (without condensation), 40 to 55°C 70% \pm 5% RH (without condensation)
Zero Adjustment	±10 turn knob at
_	base of case
Jaw Opening	1.2" (31mm)
Maximum Conductor Size	One 1.18" (30mm) or two 0.95" (24mm) or two bus bars 1.2 x 0.4" (31.5 x 10mm)
Dimensions	8.8 x 3.82 x 1.73" (224 x 97 x 44mm)
Weight	15 oz (440g)
Polycarbonate Material	Handles: Polycarbonate + ABS, Gray, UL94 VO. Jaws: Polycarbonate, Red, UL94 VO
SAFETY	EN 04040 0 00
Electrical	EN 61010-2-32
CE Mark	Yes

Note: Reference conditions: 18°C to 28°C, 20 to 75% RH, external magnetic field <40A/m, no DC component, no external current carrying conductor, test sample centered, $1M\Omega \le 100pF$ load, zero adjustment (DC only) DC to 65Hz, battery voltage $9V \pm 0.1V$.





- 1. Conductor
- 2. Zero adjustment knob
- 3. Lead, 5 ft (1.5m)
- 4. Safety banana plug ø 4mm
- 5. Two position range selection switch:
 - On/Off
 - 600A (1mV/A)

- 6. Green light (on when battery voltage ≥6.5V)
- 7. Protective non-slip guard
- 8. Jaws



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

ORDERING INFORMATION	CATALOG NO.
AC/DC Current Probe Model MR410 (Lead – 1mV/A – 600A max)	Cat. #1200.70
Includes a user manual	
Accessories (Optional)	
Banana plug adaptor (to nonrecessed plug)	Cat. #1017.45
Banana/BNC connector XF-SS (4mm plug adaptor)	Cat. #2111.32



Contact Us

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