

MR400 SERIES SPECIFICATIONS

The MR410 and MR411 are general purpose 400A_{AC} or 600A_{DC} current probes designed for use with DMMs, loggers or oscilloscopes and other instruments that have voltage inputs. The MR410 is a single range probe, while the MR411 offers dual ranges of 40 and 400A_{AC} or 60 and 600A_{DC}.

The MR410 and MR411 each have an integral 5 ft. (1.5m) lead terminated by shrouded banana plugs.

ELECTRICAL SPECIFICATIONS			
	MR410		MR411
Nominal Range:	400A _{AC} /600A _{DC}		400A _{AC} /600A _{DC}
Measurement Range:	1 to 600A		0.2 to 600A
Output Signal:	1mV/A		10mV/A on 60A range; 1mV/A on 600A range
Range: 600A	Current*:	1 to 100A 100 to 400A 400 to 600A _{DC} only	—
	Accuracy*:	1.5% Reading ±1A 2% Reading 2.5% Reading	—
Range: 45 to 65Hz	Current*:	10 to 200A 200 to 400A	—
	Phase Shift*:	2.5° 2°	—
Range: 60A	Current*:	—	0.5 to 40A 40 to 60A _{DC} only
	Accuracy*:	—	1.5% Reading ±0.5A 1.5% Reading
	Current*:	—	10 to 20A 20 to 40A
	Phase Shift*:	—	3° 2°
Range: 600A	Current*:	—	0.5 to 100A 100 to 400A 400 to 600 DC only
	Accuracy*:	—	1.5% Reading ±1A 2% Reading 2.5% Reading
	Current*:	—	10 to 100A 100 to 400A
	Phase Shift*:	—	2° 1.5°
Overload:	2000A _{DC} and 1000A _{AC} continuous up to 1kHz		
Frequency Range:	DC to 10kHz at -3dB		DC to 10kHz at -3dB
Load Impedance:	>100k /100pF		>100k /100pF
Working/Common Mode Voltage:	600V _{rms}		600V _{rms}
Battery:	9V Alkaline (Approx. 120 hours life)		9V Alkaline (Approx. 50 hours life)
Overload Indication:	—		Red LED indicates input > selected range
Auto Off:	—		10 min (may be disabled at power-up)
	MR410		MR411
Output Termination:	5 ft. Lead		5 ft. Lead

*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 100pF load, zero adjustment [DC only] DC to 65Hz, battery voltage 9V ±0.1V

MECHANICAL SPECIFICATIONS	
Operating Temperature:	14° to 131°F (-10° to +55°C)
Storage Temperature:	-40° to 176°F (-40° to +70°C)
Operating Relative Humidity:	10 - 35°C 90% ±5% RH (without condensation), 40 - 55°C 70% ±5% RH (without condensation)
Zero Adjustment:	10 turn knob at base of case Automatic zero
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:	15oz (440oz)
Polycarbonate Material:	Handles: Polycarbonate +ABS, Gray, UL94V0. Jaws: Polycarbonate, Red, UL94V0

SAFETY SPECIFICATIONS	
Electrical:	IEC 1010-2-32; 600V, Category III, Pollution Degree 2; CE Marked
Electromagnetic Compatibility:	CE Marked

ORDERING INFORMATION	CATALOG NO.
MR410 AC/DC Current Probe MR410 (Lead - 1mV/A - 600A _{max})	Cat. # 1200.70
MR411 AC/DC Current Probe MR411 (Lead - 10mA/A- 60A _{max} & 1mV/A- 600A _{max})	Cat. # 1200.68
These probes are shipped with an instruction manual and a product warranty and registration card.	
Accessories: Banana plug adapter (to nonrecessed plug)	Cat. # 1017.45



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