

Flexible AC Current Probes

HHM800 Series
Starts at
\$299



- ✓ Models Ranging from 30 Amp RMS to 30,000 Amp RMS
- ✓ Accuracy 1% of Reading
- ✓ True rms Measurement When Connected to a True RMS Instrument
- ✓ No Core Saturation or Damage if Overloaded
- ✓ Overrange LED for Measurement Circuitry
- ✓ 1000 V IEC 1010 Cat III, CE Mark
- ✓ Waterproof Sensor
- ✓ 9 V Battery for Typical 150 Hour Continuous Operation
- ✓ Custom Pre-Shaping of Sensor Before Use (No Drooping)
- ✓ Very High Frequency Response
- ✓ Low Phase Shift for Power Measurements
- ✓ Insensitive to DC, Measures Only AC Component on DC+AC Signals
- ✓ Excellent Linearity
- ✓ Lightweight Design

The HHM800 Series flexible ac current probes are composed of a flexible sensor and an electronic module. The flexible sensor permits measurements on conductors where standard clamp-on probes cannot be used.

In particular, it can be installed in tight spaces, around cable bundles, around wide or large bus bars or even wrapped around irregularly shaped objects. Probe design enables the user to pre-shape the sensor before inserting it between or around conductors. This feature facilitates positioning the sensor around the conductor, enhances user safety and alleviates the drooping effect associated with other flexible



HHM802, \$299, shown smaller than actual size.

sensors. The HHM800 Series is lightweight and does not use magnetic cores like standard transformers.

The transformation principle is based on an air core. It presents virtually no load to the system under test, has low phase shift and excellent frequency response and cannot be damaged by current overloads. The sensor assembly is waterproof and insulated for 1000 V working voltage. The HHM800 Series has an mV output proportional to the current measured for direct readings on DMM's, loggers, oscilloscopes and power or harmonic meters. The length of the flexible sensor can be selected from 610 mm (24") to 1520 mm (60").

Common Specifications

- Accuracy:** 1% of reading
- Frequency Range:** 10 to 20,000 Hz
- Working Voltage:** 1000 V IEC-1010 Cat.III
- Safety Standards:** Designed to IEC 1010 and CE mark
- CE Markings:** 1997
- Operating Temperature and % RH:** -20 to 55°C (sensor to 90°C), 0 to 90% RH (@ 50°C)
- Minimum Bend Radius:** 19 mm (0.75")
- Water and Dustproofing:** Sensor IP65 (NEMA 4X), Module IP40
- Battery and Battery Life:** 9 V alkaline (included), approx 150 hr of continuous use
- Good Battery Indication:** Green LED
- Electronic Overload Indication:** Red LED
- Output:** ¼" spaced banana jacks, optional banana plug to BNC adaptor available, 2 m (6.5') lead from sensor to module

Electrical Specifications

Model No.	HHM801	HHM802	HHM803	HHM804	HHM805	HHM806	HHM807	HHM808	HHM809
Operating Range	0.5 to 30 A	0.5 to 200 A	0.5 to 300 A	0.5 to 300 A	0.5 to 300 A	0.5 to 500 A	0.5 to 500 A	0.5 to 1000 A	0.5 to 1000 A
Measurement Range	5 to 30 A	5 to 200 A	5 to 300 A	5 to 300 A	5 to 300 A	5 to 500 A	5 to 500 A	5 to 1000 A	5 to 1000 A
Output Signal	100 mVac/A	1 mVac/A	10 mVac/A	1 mVac/A	100 mVac/A 10 mVac/A	1 mVac/A	10 mVac/A 1 mVac/A	1 mVac/A	10 mVac/A 1 mVac/A
Crest Factor (mid-range)	3.0	>10	3.0	>10	3.0	>10	>10	9.0	9.0
Phase Shift @ 50/60 Hz	1°	0.5°	0.5°	0.5°	1°	0.5°	0.5°	0.5°	0.5
Residual Noise	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA
DC Offset	50 mV	2 mV	5 mV	2 mV	50 mV 5 mV	2 mV	5 mV 2 mV	2 mV	5 mV 2 mV

Model No.	HHM810	HHM811	HHM812	HHM813	HHM814	HHM815	HHM816	HHM817
Operating Range	0.5 to 3000 A	0.5 to 3000 A	0.5 to 6000 A	0.5 to 6000 A	0.5 to 10,000 A	0.5 to 10,000 A	0.5 to 30,000 A	0.5 to 30,000 A
Measurement Range	5 to 3000 A	5 to 3000 A	5 to 6000 A	5 to 6000 A	5 to 10,000 A	5 to 10,000 A	5 to 30,000 A	5 to 30,000 A
Output Signal	1 mVac/A	10 mVac/A 1 mVac/A	0.1 mVac/A	1 mVac/A 0.1 mVac/A	0.1 mVac/A	1 mVac/A 0.1 mVac/A	0.1 mVac/A	1 mVac/A 0.1 mVac/A
Crest Factor (mid-range)	3.0	3.0	>10	>10	9.0	9.0	3.0	3.0
Phase Shift @ 50/60 Hz	0.5°	0.5°	0.3°	0.3°	0.3°	0.3°	0.3°	0.3°
Residual Noise	200 mA	200 mA	500 mA	500 mA	500 mA	500 mA	500 mA	500 mA
DC Offset	2 mV	5 mV 2 mV	1 mV	2 mV 1 mV	1 mV	2 mV 1 mV	1 mV	2 mV 1 mV

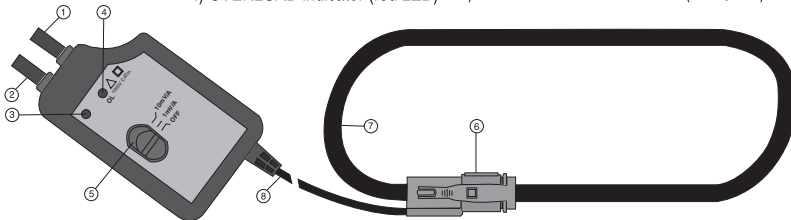
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To Order (Specify Model Number)		
Model No.	Price	Current Range (A)
HHM801	\$299	30
HHM802	299	200
HHM803	299	300
HHM804	299	300
HHM805	319	30/300
HHM806	299	500
HHM807	319	50/500
HHM808	299	1000
HHM809	319	100/1000
HHM810	319	3000
HHM811	339	300/3000
HHM812	469	6000
HHM813	469	600/6000
HHM814	519	10000
HHM815	489	1000/10000
HHM816	669	30000
HHM817	689	3000/30000
HHM70-CONN1	38	Accessory adaptor

Standard length is 610 mm (24"). Please consult sales for availability and pricing for 910, 1220, and 1520 mm (36, 48, and 60") models. Comes with 9 V battery and operator's manual.

Ordering Example: HHM805, flexible current probe and HHM70-CONN1, banana plug to BNC adaptor, \$319 + 38 = \$357.

- 1) Positive: Red banana plug (+)
- 2) Common: Black banana plug (-)
- 3) Power ON indicator (green LED)
- 4) OVERLOAD indicator (red LED)
- 5) Range selection switch
- 6) OMEGA® connector/latch
- 7) Flexible sensor (diameter 0.5", 12.5 mm)
- 8) Lead from sensor to module (6.5 ft, 2 m)



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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters