AC/DC Current Probes

HHM70 Series
Starts at $164

- User-Friendly Auto-Zero Push Button
- Current Ranges From 1 to 1500 A
- Built to IEC 1010, 600 V Cat. III
- Designed to International Standards
- Battery Life Indicator
- Overrange Indication
- Auto-Off (Models HHM72, 73, 75, and 76)
- High Accuracy
- Rugged Hooked-Jaw Designs
- 2 Different Hook Jaw Shapes Offered
- Easy-to-Use with DMMs and Oscilloscopes
- Designed to Operate in Noisy Industrial Environments
- Dual-Range Models with Higher Signal Output for Low Current Measurements

The HHM70 Series AC/DC probes are the newest line of professional current probes designed to extend current measuring capabilities of DMM’s, oscilloscopes, and other instruments. They are built to the latest safety and performance standards and carry the CE mark. Two different hook-shaped jaws are offered, both permitting the user to “pry” or “hook” onto cables (will accept 2 x 500 MCM) or even onto small bus bars.

The probes use Hall effect technology and measure AC and DC. The electronics and batteries are self-contained in the handles. The output of the AC/DC probes is 1 mV/A and 10 mV/A. An auto-zero push button (patent pending) ensures rapid and stable zeroing. There is no output filtering—true RMS with DC components is possible. Phase shift is excellent, making the HHM70 Series well suited to power and power-quality applications.

The HHM73 and HHM76 are designed for oscilloscopes, waveform displaying instruments, and other frequency-sensitive display instruments.

The HHM70 Series AC/DC probes shown smaller than actual size.

Safety Specifications
(Common to All Probe Models)

**Electrical:** CE mark 1997; double insulation or reinforced insulation between primary, secondary and outer case of handle per IEC 1010-1 @ 2 (indoor use); 600 V Category III, Pollution: 2; 300 V Category IV, Pollution: 2

**Electromagnetic Compatibility:**
- CE mark 1996
- EN50081-1 Class B
- EN50082-2 Electrostatic discharge
- IEC 1000-4-2
- Radiated field IEC 1000-4-3
- Fast transients IEC 1000-4-4
- Magnetic field at 50/60 Hz IEC 1000-4-8
HHM71 Electrical Specifications
Current Range: 1 to 400 A AC (600 A peak); 1 to 600 A DC
Output Signal: 1 mV/A
Accuracy: 1 to 100 A: 1.5% rdg
±1 A; 100 to 400 A: 2% rdg;
400 to 600 A DC: 2.5% rdg
Phase Shift (45 to 65 Hz): 10 to 200 A: ±2.5°; 200 to 400 A: ±2°
Frequency Range: DC to 10 kHz @ -3 dB
Load Impedance: >100 kΩ/100 pF
Working Voltage: 600 Vrms
Common Mode Voltage: 600 Vrms
Battery: 9 V alkaline (included)
Low Battery: Green LED when voltage ≥6.5 V
Battery Life: 120-hr (alkaline battery)

HHM72 Electrical Specifications
Current Range:
60 A Range: 0.2 to 40 A AC (60 A peak), 0.4 to 60 A DC
600 A Range: 0.5 to 400 A AC (600 A peak) 0.5 to 600 A DC
Output Signal:
60 A Range: 12 mV/A
600 A Range: 1 mV/A
Accuracy:
60 A Range: 0.5 to 40 A: 1.5% rdg
±0.5A; 40 to 60 A DC: 1.5% rdg
600 A Range: 0.5 to 100 A: 1.5% rdg
±1 A; 100 to 400 A: 2.0% rdg;
400 to 600 A DC: 2.5% rdg
Phase Shift (45 to 65 Hz):
60 A Range: 10 to 20 A: ≤3°;
20 to 40 A: ≤2°
600 A Range: 10 to 100 A: ≤2°;
100 to 400 A: ≤1.5°
Frequency Range: DC to 10 kHz @ -3 dB
Load Impedance: >100 kΩ/100 pF
Working Voltage: 600 Vrms
Common Mode Voltage: 600 Vrms
Battery: 9 V alkaline (included)
Low Battery: Green LED when voltage ≥6.5 V
Battery Life: 120-hr (alkaline battery)
Overload Indication: Red LED
Auto-Off: 5 minutes (can be disabled)

HHM73 Electrical Specifications
Current Range:
60 A Range: 0.2 to 40 A AC (60 A peak) 0.4 to 60 A DC
600 A Range: 0.5 to 400 A AC (600 A peak) 0.5 to 600 A DC
Output Signal:
60 A Range: 10 mV/A
600 A Range: 1 mV/A
Accuracy:
60 A Range: 0.5 to 40 A: 1.5% rdg
±0.5 A; 40 to 60 A DC: 1.5% rdg
600 A Range: 0.5 to 100 A: 1.5% rdg
±1 A; 100 to 400 A: 2.0% rdg;
400 to 600 A DC: 2.5% rdg
Phase Shift (45 to 65 Hz):
60 A Range: 10 to 20 A: ≤3°;
20 to 40 A: ≤2°
600 A Range: 10 to 100 A: ≤2°;
100 to 400 A: ≤1.5°
Frequency Range: DC to 10 kHz @ -3 dB
Load Impedance: >100 kΩ/100 pF
Working Voltage: 600 Vrms
Common Mode Voltage: 600 Vrms
Battery: 9 V alkaline (included)
Low Battery: Green LED when voltage ≥6.5 V
Battery Life: 50-hr (alkaline battery)
Overload Indication: Red LED
Auto-Off: 10 minutes (can be disabled)

HHM71, 72, 73 Common Mechanical Specifications
Operating Temperature Range:
-10 to 55°C (14 to 131°F)
Operating Relative Humidity:
10 to 35°C (50 to 95°F): 90 ±5% RH
40 to 55°C (104 to 131°F): 70 ±5% RH
Zero Adjustment: Automatic zero push button (manual knob on HHM71)
Maximum Cable Diameter:
One 30 mm (1.18"), or two 24 mm (0.95"),
or 2 bus bars 31.5 x 5 mm (1.2 x 0.4"
Handle and Jaws Material:
Polycarbonate
Dimensions: 224 x 97 x 44 mm
(8.8 x 3.82 x 1.73"
Weight: 440 g (15 oz)
Color: Dark gray with red jaws
Cable: Double-insulated 1.5 m (5’) lead
with safety banana plugs [insulated 2 m
(6’)] coaxial cable with insulated BNC
connector on HHM73]
HHM74 Electrical Specifications
Current Range: 1 to 1000 A AC (1500 A peak); 1 to 1500 A DC
Output Signal: 1 mV/A
Accuracy: 1 to 100 A: 1.5% rdg ±1A; 100 to 800 A: 1.5% rdg; 800 to 1000 A: 2.5% rdg; 1000 to 1500 A DC: 4.0% rdg
Phase Shift (45 to 65 Hz): 10 to 200 A: ≤2°; 200 to 1000 A: ≤1.5°
Frequency Range: DC to 10 kHz @ -3 dB
Load Impedance: >100 kΩ/100 pF
Working Voltage: 600 Vrms
Common Mode Voltage: 600 Vrms
Battery: 9 V alkaline (included)
Low Battery: Green LED when voltage ≥6.5 V
Battery Life: 120-hr (alkaline battery)

HHM75 Electrical Specifications
Current Range:
- 150 A Range: 0.2 to 100 A AC (150 A peak); 0.4 to 150 A DC
- 1500 A Range: 0.5 to 1000 A AC (1500 A peak) 0.5 to 1500 A DC
Output Signal:
- 150 A Range: 10 mV/A
- 1500 A Range: 1 mV/A
Accuracy:
- 150 A Range: 0.5 to 20 A: 1.5% rdg ±0.5A; 20 to 100 A: 1.5% rdg; 100 to 150 A DC: 2.5% rdg
- 1500 A Range: 0.5 to 100 A: 1.5% rdg ±1A; 100 to 800 A: 2.5% rdg; 800 to 1000 A: 4.0% rdg; 1000 to 1500 A DC: 4.0% rdg
Phase Shift (45 to 65 Hz):
- 150 A Range: 10 to 20 A: ≤3°; 20 to 100 A: ≤2°; 100 to 150 A: ≤2°
- 1500 A Range: 10 to 200 A: ≤2°; 200 to 1000 A: ≤1.5°
Frequency Range: DC to 10 kHz @ -3 dB
Load Impedance: >100 kΩ/100 pF
Working Voltage: 600 Vrms
Common Mode Voltage: 600 Vrms
Battery: 9 V alkaline (included)
Low Battery: Green LED when voltage ≥6.5 V
Battery Life: 50-hr (alkaline battery)
Overload Indication: Red LED
Auto-Off: 10 minutes (can be disabled)

HHM76 Electrical Specifications
Current Range:
- 150 A Range: 0.2 to 100 A AC (150 A peak); 0.4 to 150 A DC
- 1500 A Range: 0.5 to 1000 A AC (1500 A peak) 0.5 to 1500 A DC
Output Signal:
- 150 A Range: 10 mV/A
- 1500 A Range: 1 mV/A
Accuracy:
- 150 A Range: 0.5 to 20 A: 1.5% rdg ±0.5A; 20 to 100 A: 1.5% rdg; 100 to 150 A DC: 2.5% rdg
- 1500 A Range: 0.5 to 100 A: 1.5% rdg ±1A; 100 to 800 A: 2.5% rdg; 800 to 1000 A: 4.0% rdg; 1000 to 1400 A DC: 4.0% rdg
Phase Shift (45 to 65 Hz):
- 150 A Range: 10 to 20 A: ≤3°; 20 to 100 A: ≤2°; 100 to 150 A: ≤2°
- 1500 A Range: 10 to 200 A: ≤2°; 200 to 1000 A: ≤1.5°
Frequency Range: DC to 10 kHz @ -3 dB
Load Impedance: >100 kΩ/100 pF
Working Voltage: 600 Vrms
Common Mode Voltage: 600 Vrms
Battery: 9 V alkaline (included)
Low Battery: Green LED when voltage ≥6.5 V
Battery Life: 50-hr (alkaline battery)
Overload Indication: Red LED
Auto-Off: 10 minutes (may be disabled)

HHM74, 75, 76 Common Mechanical Specifications
Operating Temperature Range: -10 to 55°C (14 to 131°F)
Operating Relative Humidity:
- 10 to 35°C (50 to 95°F): 90 ±5% RH
- 40 to 55°C (104 to 131°F): 70 ±5% RH
Zero Adjustment: Automatic zero push button (manual knob on HHM74)
Maximum Cable Diameter: One 42 mm (1.6"), or two 25.4 mm (0.98"), or two bus bars 50 x 5 mm (1.96 x 0.19"
Handle and Jaws Material: Polycarbonate
Dimensions: 236.5 x 97 x 44 mm (9.31 x 3.82 x 1.73"
Weight: 480 g (16 oz)
Color: Dark gray with red jaws
Cable: Double-insulated 1.5 m (5') lead with safety banana plugs [insulated 2 m (6½') coaxial cable with insulated BNC connector on HHM76]
More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shredding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

- **Heaters**