AC/DC Current Probes

HHM70 Series

$144

Basic Unit

MADE IN USA · 1 YEAR WARRANTY · CE

- 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
- Two Different Hook Jaw Shapes Offered
- Easy-to-Use with DMM's and Oscilloscopes
- Designed to Operate in Noisy Industrial Environments
- Dual Range Models with Higher Signal Output for Low Current Measurements



AC/DC probes shown smaller than actual size

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 HHM70 Series 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 of current probes well suited for power and power quality applications.

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

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 (45-65 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
Low Battery:
Green LED when voltage ≥6.5 V
Battery Life: 120 hours (alkaline battery)

HHM71, 72, 73 Common Mechanical Specifications

Operating Temperature Range:
-10 to 55°C (14 to 131°F)
Operating Relative Humidity:
10 to 35°C: 90 ± 5% RH
40 to 55°C: 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 two 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 ft) lead with safety banana plugs (insulated 2 m (6½ ft) coaxial cable with insulated BNC connector on HHM73)



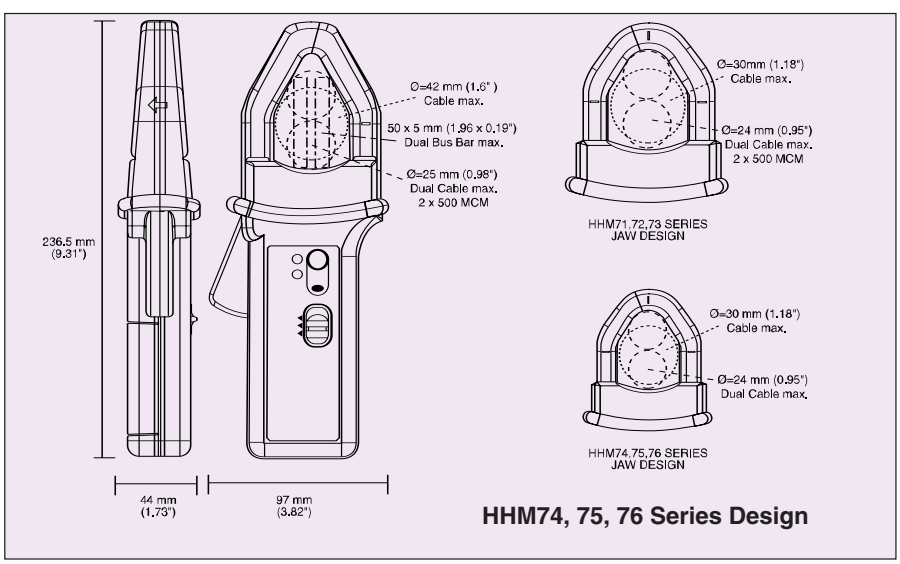
HHM72 Electrical Specifications

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: 10 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 (45-65 Hz):
60 A Range:
10 to 20A: ≤3°
20 to 100 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
Low Battery:
Green LED when voltage ≥6.5 V
Battery Life:
50 hours (alkaline battery)
Overload Indication: Red LED
Auto Off: 10 minutes (can be disabled)



HHM73 Electrical Specifications

Current Range:
60 A Range:
0.2 to 40 A AC (60A 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
± 0.5A 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 (45-65 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
Low Battery:
Green LED when voltage ≥6.5 V
Battery Life: 50 hours (alkaline battery)
Overload Indication: Red LED
Auto Off: 10 minutes (can be disabled)



HHM74, 75, 76 Series Design



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: 2.5% rdg
800 to 1000 A: 4.0% rdg
1000 to 1500 A dc: 4.0% rdg
Phase Shift (45-65 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
Low Battery:
Green LED when voltage ≥6.5 V
Battery Life: 120 hours
(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 ± 1 A
100 to 800 A: 2.5% rdg
800 to 1000 A: 4.0% rdg
1000 to 1400 A dc: 4.0% rdg
Phase Shift (45-65 Hz):
150 A Range: 10 to 20 A: ≤3°
20 to 100 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
Low Battery:
Green LED when voltage ≥6.5 V
Battery Life: 50 hours (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 ± 1 A
100 to 800 A: 2.5% rdg
800 to 1000 A: 4.0% rdg
1000 to 1400 A dc: 4.0% rdg
Phase Shift (45-65 Hz):
150 A Range: 10 to 20 A: ≤3°
20 to 100 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
Low Battery:
Green LED when voltage ≥6.5 V
Battery Life: 50 hours (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: 90 ± 5% RH
40 to 55°C: 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)

MOST POPULAR MODELS HIGHLIGHTED!

To Order ***(Specify Model Number)***

Model Number	Price	Description
HHM71	**$144**	Current probe, 600 A, 1 mV/A, banana plug
HHM72	**199**	Current probe, 600 A, 1 or 10 mV/A, banana plug
HHM73	**279**	Current probe, 600 A, 1 or 10 mV/A, BNC connector
HHM74	**199**	Current probe, 1500 A, 1 mV/A, banana plug
HHM75	**249**	Current probe, 1500 A, 1 or 10 mV/A, banana plug
HHM76	**329**	Current probe, 1500 A, 1 or 10 mV/A, BNC connector
HHM70-CONN1	**38**	Banana plug to BNC adaptor
HHM70-CONN2	**27**	BNC to banana plug adaptor

Comes with 9 V battery and operator's manual
Ordering Example: Model HHM72** AC/DC current probe with **HHM70-CONN1** banana plug to BNC adaptor, $199 + 38 = **$237.