

AC/DC CURRENT CLAMPS

AC/DC Current Clamp Specifications

	80i-110s	i410	i1010	i30	i30s	i310s
DC range	0.1 A to 100 A	1 A to 400 A	1 A to 1000 A	30 mA to 30 A	30 mA to 30 A	0.1 A to 450 A
AC range	0.1 A to 70 A	1 A to 400 A	1 A to 600 A	30 mA to 20 A RMS	30 mA to 20 A RSM	0.1 A to 300 A
Accuracy	0.1 A to 10 A; AC to 1 kHz: $\pm 3\% + 50 \text{ mA}$; up to 100 A add 15%; up to 20 kHz add 12%	3.5% + 0.5 A for DC or AC (45 to 400 Hz)	2% + 0.5 A for DC or AC (45 to 400 Hz)	$\pm 1\%$ of reading, $\pm 2 \text{ mA}$	$\pm 1\%$ of reading, $\pm 2 \text{ mA}$	30 A range: 1% + 50 mA 300 A range: 1% + 300 mA
Bandwidth (-3 dB)	100 kHz	3 kHz	10 kHz	dc to 20 kHz (-0.5 dB)	dc to 100 kHz (-0.5 dB)	dc to 20 kHz
Zero error adjustment	•	•	•	•	•	•
Maximum conductor diameter	11.8 mm	30 mm	30 mm	19 mm	19 mm	19 mm
Maximum conductor size	35 mm ²	1 × 400 mm ² or 2 × 240 mm ²	1 × 400 mm ² or 2 × 240 mm ²	120 mm ²	120 mm ²	120 mm ²
Output levels	10 mV/A, 100 mV/A	1 mV/A	1 mV/A	100 mV/A	100 mV/A	1 mV/A, 10 mV/A
Output cable	1.6 meter with BNC termination	1.2 meter with shrouded banana plugs	1.2 meter with shrouded banana plugs	1.5 meter with shrouded dual banana plugs	2 meter with BNC termination	2 meter with BNC termination and a BNC to safety shrouded banana adapter
Battery life	40 hours	60 hours	60 hours	30 hours	30 hours	30 hours
Warranty	One-year	One-year	One-year	One-year	One-year	One-year
Safety	CAT II 600 V; CAT III 300 V	CAT III 600 V	CAT III 600 V	CAT III 300 V	CAT III 300 V	CAT III 300 V

AC/DC Current Clamp Selection Guide

	80i-110s	i410	i1010	i30	i30s	i310s
114/115/116/117	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1.4 A to 400 A DC/ 6 A to 400 A AC	1.4 A to 1000 A DC/ 6 A to 600 A AC	30 mA to 30 A DC/ 60 mA to 20 A AC	30 mA to 30 A DC/ 60 mA to 20 A AC	0.1 A to 450 A DC/ 0.6 A to 300 A AC
233	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1.4 A to 400 A DC/ 6 A to 400 A AC	1.4 A to 1000 A DC/ 6 A to 600 A AC	30 mA to 30 A DC/ 60 mA to 20 A AC	30 mA to 30 A DC/ 60 mA to 20 A AC	0.1 A to 450 A DC/ 0.6 A to 300 A AC
27 II	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1 A to 400 A DC/ 1 A to 400 A AC	1 A to 1000 A DC/ 1 A to 600 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	0.1 A to 450 A DC/ 0.1 A to 300 A AC
28 II	0.1 A to 100 A DC/ 0.2 A to 70 A AC*	1 A to 400 A DC/ 6 A to 400 A AC	1 A to 1000 A DC/ 6 A to 600 A AC	30 mA to 30 A DC/ 60 mA to 20 A AC	30 mA to 30 A DC/ 60 mA to 20 A AC	0.1 A to 450 A DC/ 60 mA to 300 A AC
77 IV	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1 A to 400 A DC/ 5 A to 400 A AC	1 A to 1000 A DC/ 5 A to 600 A AC	30 mA to 30 A DC/ 40 mA to 20 A AC	30 mA to 30 A DC/ 40 mA to 20 A AC	0.1 A to 450 A DC/ 0.4 A to 300 A AC
175/177/179	0.11 A to 100 A DC/ 0.3 A to 70 A AC*	1.6 A to 400 A DC/ 30 A to 400 A AC	1.6 A to 1000 A DC/ 30 A to 600 A AC	30 mA to 30 A DC/ 300 mA to 20 A AC	30 mA to 30 A DC/ 300 mA to 20 A AC	0.1 A to 450 A DC/ 3 A to 300 A AC
1577/1587 FC	0.1 A to 100 A DC/ 0.3 A to 70 A AC*	1.2 A to 400 A DC/ 30 A to 400 A AC	1.2 A to 1000 A DC/ 30 A to 600 A AC	30 mA to 30 A DC/ 300 mA to 20 A AC	30 mA to 30 A DC/ 300 mA to 20 A AC	0.1 A to 450 A DC/ 3 A to 300 A AC
83V/88V	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1 A to 400 A DC/ 1 A to 400 A AC	1 A to 1000 A DC/ 1 A to 600 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	0.1 A to 450 A DC/ 0.1 A to 300 A AC
87V	0.1 A to 100 A DC/ 0.2 A to 70 A AC*	1 A to 400 A DC/ 20 A to 400 A AC	1 A to 1000 A DC/ 20 A to 600 A AC	30 mA to 30 A DC/ 200 mA to 20 A AC	30 mA to 30 A DC/ 200 mA to 20 A AC	0.1 A to 450 A DC/ 2 A to 300 A AC
287/289	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1 A to 400 A DC/ 1 A to 400 A AC	1 A to 1000 A DC/ 1 A to 600 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	0.1 A to 450 A DC/ 0.1 A to 300 A AC
123/124	0.1 A to 100 A DC/ 0.25 A to 70 A AC	1 A to 400 A DC/ 25 A to 400 A AC**	1 A to 1000 A DC/ 25 A to 600 A AC**		30 mA to 30 A DC/ 250 mA to 20 A AC	0.1 A to 450 A DC/ 2.5 A to 300 A AC
190 Series II	0.1 A to 100 A DC/ 0.1 A to 70 A AC	1 A to 400 A DC/ 5 A to 400 A AC**	1 A to 1000 A DC/ 5 A to 600 A AC**	30 mA to 30 A DC/ 50 mA to 20 A AC**	30 mA to 30 A DC/ 50 mA to 20 A AC	0.1 A to 450 A DC/ 0.5 A to 300 A AC
8808A	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1 A to 400 A DC/ 2 A to 400 A AC	1 A to 1000 A DC/ 2 A to 600 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	0.1 A to 450 A DC/ 0.2 A to 300 A AC
8845A/8846A	0.1 A to 100 A DC/ 0.1 A to 70 A AC*	1 A to 400 A DC/ 1 A to 400 A AC	1 A to 1000 A DC/ 1 A to 600 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	30 mA to 30 A DC/ 30 mA to 20 A AC	0.1 A to 450 A DC/ 0.1 A to 300 A AC
705/707	0.1 A to 100 A DC, no AC*	4 A to 400 A DC, no AC	4 A to 1000 A DC, No AC	40 mA to 30 A DC, no AC	40 mA to 30 A DC, no AC	0.4 A to 450 A DC, no AC
715	0.1 A to 100 A DC, no AC*	4 A to 400 A DC, no AC	4 A to 1000 A DC, No AC	40 mA to 30 A DC, no AC	40 mA to 30 A DC, no AC	0.1 A to 450 A DC, no AC
787B/789	0.1 A to 100 A DC/ 0.2 A to 70 A AC*	1 A to 400 A DC/ 20 A to 400 A AC	1 A to 1000 A DC/ 20 A to 600 A AC	30 mA to 30 A DC/ 200 mA to 20 A AC	3 mA to 30 A DC/ 200 mA to 20 A AC	0.1 A to 450 A DC/ 2 A to 300 A AC

* Requires PM9081 Adapter
** Requires PM9082/001 Adapter



AC/DC Current Clamps



i410 AC/DC Current Clamp

This battery-powered Hall-effect probe measures 1 A to 400 A with large-claw clamp that gives access to difficult-to-reach areas. It is compatible with most multimeters and other devices that measure AC and DC current and accepts shrouded 4 mm banana plugs.

- On/Off LED indicator
- AC and DC current range: 1 A to 400 A
- Frequency range: DC to 3 kHz
- Safety rating: CAT III 600 V



i410-KIT AC/DC Current Clamp and Carry Case Kit

This special-value kit for electrical professionals adds AC and DC current measurement capabilities to a digital multimeter. A roomy carrying case holds a meter and the current clamp plus test leads, probes and manuals. Kit includes:

- i410 AC/DC Current Clamp
- C116 Soft Carrying Case



i1010 AC/DC Current Clamp

This clamp measures both AC and DC currents with a large-jaw, battery-powered Hall-effect probe that gives access to difficult-to-reach areas. It is compatible with most Fluke multimeters and any other devices that measure AC and DC current and accept shrouded 4 mm banana plugs.

- On/Off LED indicator
- AC current range: 1 A to 600 A AC
- DC current range: 0.5 A to 1000 A DC
- Frequency range: DC to 10 kHz
- Safety rating: CAT III 600 V RMS



i1010-KIT AC/DC Current Clamp and Carry Case Kit

This special-value kit for electrical professional adds AC and DC current measurement capabilities to a digital multimeter. A roomy carrying case holds a meter and the current clamp plus test leads, probes and manuals. Kit includes:

- i1010 AC/DC Current Clamp
- C116 Soft Carrying Case



i30 AC/DC Current Clamp

Based on Hall-effect technology, this battery-powered clamp measures both AC and DC current. It may be used in conjunction with multimeters, recorders and other suitable recording instruments for accurate non-intrusive current measurement.

- AC current range: 30 mA to 20 A RMS
- DC current range: 30 mA to 30 A
- Frequency range: DC to 20 kHz (-0.5 dB)
- Safety rating: CAT III 300 V



i30s AC/DC Current Clamp

Based on Hall effect technology, this battery-powered clamp measures both AC and DC current. It may be used with ScopeMeter® and other suitable recording instruments for accurate non-intrusive current measurement.

- AC current range: 30 mA to 20 A RMS
- DC current range: 30 mA to 30 A
- Frequency range: DC to 100 kHz
- Safety rating: CAT III 300 V



i310s AC/DC Current Clamp

Based on Hall-effect technology, this battery-powered clamp measures both AC and DC current. This clamp is especially useful for current measurements on inverters, switching power supplies, industrial controllers, automotive diagnostics, and other applications requiring current measurements and/or waveform analysis.

- AC current range: 0.1 A to 300 A
- DC current range: 0.1 A to 300 A
- Frequency range: DC to 20 kHz
- Safety rating: CAT III 300 V



80i-110s AC/DC Current Clamp

This clamp is compatible with ScopeMeters®, power harmonics analyzers, multimeters, and other voltage measurement devices that have BNC input connectors.

- AC current range: 0.1 A to 70 A
- DC current range: 0.1 A to 100 A
- Frequency range: DC to 100 kHz
- Optional PM9081/001 Dual Banana Plug Male to Female BNC Adapter is available for digital multimeters
- Safety rating: CAT II 600 V

Did you know?

Does your current probe read zero current when you clamp it around a power cord?

That's because the power cord has both the hot and neutral current carrying wire in it. If both wires are in the jaws of the clamp meter, the fields cancel each other out, and the current clamp will read nothing. You need to put just one current-carrying conductor in the jaw of the current clamp. If you don't have access to the separate wires within the cord, use a line splitter tool to avoid breaking the circuit.