

Fluke current clamps

For use with DMMs, ScopeMeters and power quality analyzers

AC current clamp specifications

	i200	i200s	i400	i400s	i800	i1000s	i3000s	i2000 flex	i3000s flex
AC current range	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A	1 A to 600 A	0.2 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
Accuracy	≤ 3% +0.5 A48 to 65 Hz	≤ 1% +0.5 A 48 Hz to 65 Hz	2% + 0.06 A 45 Hz to 400 Hz	.5 A to 40 A, 2% + .015 A, 5 A to 400 A, 2% + .04 A, 45 to 400 Hz	± 2% of rdg., 50 Hz to 1 kHz ± 3% of rdg., (typical) 30 Hz to 50 Hz and 1 kHz to 10 kHz	0.2 to 10 A: 3%+0.1 A to 100 A: 2%+0.5 A to 1000 A: 1%+1 A 48 to 65 Hz	1 to 30 A: 2% + 0.1 A to 300 A: 2% + 0.5 A: 1 to 3000 A: 2% + 2 A 48 to 65 Hz	± 1% of range 45 to 65 Hz Ranges: 20 A, 200 A, 2000 A	± 1% of range, 45 Hz to 65 Hz Ranges: 30 A, 300 A, 3000 A
Bandwidth (-3 dB)	40 Hz to 40 kHz	40 Hz to 40 kHz	5 kHz to 20 kHz	5 Hz to 10 kHz	10 Hz to 50 kHz	5 Hz to 100 kHz	10 Hz to 100 kHz	10 Hz to 20 kHz	10 Hz to 50 kHz
Maximum conductor diameter	20 mm (0.8 in)	20 mm (0.8 in)	32 mm (1.25 in)	32 mm (1.25 in)	50 mm (1.98 in)	54 mm (2.13 in)	64 x 100 mm (2.52 x 3.94 in)	177 mm (7 in)	177 mm (7 in) or 265 mm (10.4 in)
Maximum conductor size	300 MCM	300 MCM	750 MCM	750 MCM	2-500 MCM or 1-1000 MCM	2-500 MCM or 1-1000 MCM	64 mm (2.52 in)	610 mm (24 in) circumference	610 mm or 915 mm circumference
Output levels	1 mA/A	10 mV/A 100 mV/A	1 mA/A	10 mV/A 1 mV/A	1 mA/A 10 mV/A	1 mV/A 10 mV/A 100 mV/A	10 mV/A 1.0 mV/A	100 mV/A 10 mV/A 1 mV/A	100 mV/A 10 mV/A 1 mV/A
Output cable	1.5 m shrouded banana plugs	2 m to BNC termination	1.5 m shrouded banana plugs	2.5 m to BNC termination	1.2 m shrouded banana plugs	1.6 m to BNC termination	2.1 m to BNC termination	2 m with double shrouded banana plugs	2.1 m to BNC termination
Warranty	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year
Safety rating	CAT III 600 V	CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V

AC clamp-on current probe compatibility

Meter	i200	i200s	i400	i400s	80i-600A	i1000s	i3000s	i2000 FLEX ¹	i3000s FLEX
10/11/12/12B/16/18		1 A to 200 A		1 A to 400 A*		0.2 A to 1000 A*	1 A to 3000 A	2 A to 3000 A	3 A to 3000 A
110/111/112		3 A to 200 A		30 A to 400 A*		3 A to 1000 A*	30 A to 3000 A	3 A to 3000 A	3 A to 3000 A
114/116		1 A to 200 A		0.6 A to 400 A*		0.2 A to 1000 A*	1 A to 3000 A	2 A to 3000 A	3 A to 3000 A
115/117	60 A to 200 A	1 A to 200 A	60 A to 400 A	0.6 A to 400 A*	60 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
21/23/73/75/77 Series III	1 A to 200 A	1 A to 200 A	1 A to 400 A	1 A to 400 A*	1 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
26/79 Series III	1 A to 40 A	1 A to 200 A	1 A to 40 A & 200 A to 400 A	2 A to 400 A*	1 A to 40 A & 200 A to 400 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A
27	1 A to 200 A	1 A to 200 A	1 A to 400 A	1 A to 400 A*	1 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
70 Series III		1 A to 200 A		1 A to 400 A*		0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
175/177/179	3 A to 200 A	1 A to 200 A	3 A to 400 A	3 A to 400 A*	3 A to 600 A	0.3 A to 1000 A*	3 A to 3000 A	2 A to 2000 A	3 A to 3000 A
1577/1587 Insulation Meter	3 A to 200 A	1 A to 200 A	3 A to 400 A	3 A to 400 A*	3 A to 400 A	0.3 A to 1000 A*	3 A to 3000 A	2 A to 2000 A	3 A to 3000 A
83III/83V/88V	2 A to 200 A	1 A to 200 A	2 A to 400 A	2 A to 400 A*	2 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
85/87 Series III 87 Series V	2 A to 200 A	1 A to 200 A	2 A to 400 A	2 A to 400 A*	2 A to 600 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A
87/89 Series IV 187/189	2.5 A to 200 A	1 A to 200 A	2.5 A to 400 A	0.5 A to 400 A*	2.5 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
287/289	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A*	1 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
8060A/8062A DMMs	2 A to 200 A	1 A to 200 A	2 A to 400 A	2 A to 400 A*	2 A to 600 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A
860 Series Graphical Multimeters	1 A to 200 A	1 A to 200 A	1 A to 400 A	3 A to 400 A*	1 A to 600 A	0.3 A to 1000 A*	3 A to 3000 A	2 A to 2000 A	3 A to 3000 A
39/41B Power Meter		1 A to 200 A ²		1 A to 400 A ²		0.2 A to 1000 A ²	1 A to 3000 A ²	2 A to 2000 A ²	3 A to 3000 A ²
43B Power Quality Analyzer		1 A to 200 A		0.5 A to 400 A		0.2 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
434/435 Power Quality Analyzer		1 A to 200 A		1.2 A to 400 A		0.3 A to 1000 A	1.2 A to 3000 A	Best to use i430Flex	Best to use i430Flex
9X ScopeMeter Series		1 A to 200 A		1 A to 400 A		0.2 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
120 Series ScopeMeters		1 A to 200 A		2.5 A to 400 A		0.25 A to 1000 A	2.5 A to 3000 A	2 A to 2000 A	3 A to 3000 A
190 Series Scopemeters		1 A to 200 A		1 A to 400 A		0.2 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
45 DMM	1.5 A to 100 A	1 A to 200 A	1.5 A to 100 A	1.5 A to 400 A*	1.5 A to 100 A & 500 A to 600 A	0.15 A to 1000 A*	1.5 A to 3000 A	2 A to 2000 A	3 A to 3000 A
8808A	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A*	1 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
8845A/8846A	1 A to 200 A	1 A to 200 A	1 A to 400 A	1 A to 400 A*	1 A to 600 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
74X Series Process Calibrators		1.1 A to 200 A		11 A to 400 A*		1.1 A to 1000 A*	11 A to 3000 A	2 A to 2000 A	3 A to 3000 A
787/789 Process Meters	50 A to 200 A	1 A to 200 A	50 A to 400 A	2 A to 400 A*	50 A to 440 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A

* Requires PM90B1/001 Adapters.

¹ Three range version.

² Current and watt readings will be multiples of 10 higher or lower than actual on some ranges.

AC only models



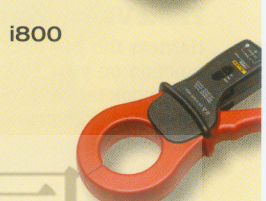
i200s



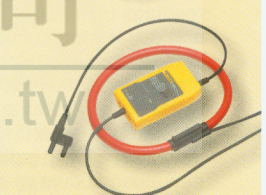
i400s



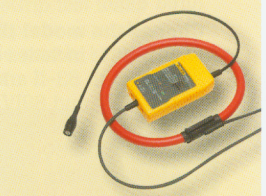
i800



i1000s



i2000 flex



i3000s flex



i310s



i6000s

- 6 A to 6000 A
- Compatible with most products except 434/435

Fluke current clamps

For use with DMMs, ScopeMeters and Power Quality Analyzers

AC/DC current clamp specifications

	80i-110s	i410	i1010	i30	i30s	i310s
DC range	0.1 A to 100 A	1 to 400 A	1 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 rms	0.1 A to 300 A
Accuracy	0.1 A to 10 A; dc to 1 kHz; $\pm 3\%$ + 50 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, ± 2 mA	$\pm 1\%$ of reading, ± 2 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	Yes	Yes	Yes	Yes	Yes	Yes
Maximum conductor diameter	11.8 mm (0.46 in)	30 mm (1.18 in)	30 mm (1.18 in)	19 mm (0.75 in)	19 mm (0.75 in)	19 mm (0.75 in)
Maximum conductor size	1 AWG	750 MCM or 2-500 MCM	750 MCM or 2-500 MCM	250 MCM	250 MCM	250 MCM
Output levels	10 mV/A, 100 mV/A	1 mV/A	1 mV/A	100 mV/A	100 mV/A	10 mV/A, 100 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 plug	2 meter with BNC termination	2 meters 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 clamp-on current probe compatibility

Meter	80i-110s	i410	i1010	i30	i30s	i310s
10/11/12/12B/16/18	0.1 A to 100 A dc/ 0.1 A to 70 A ac*	5 A to 400 A dc/ 7 A to 400 A ac	5 A to 1000 A dc/ 7 A to 600 A ac	40 mA to 30 A dc/ 60 mA to 20 A ac	40 mA to 30 A dc/ 60 mA to 20 A ac	0.4 A to 450 A dc/ 0.6 A to 300 A ac
110/111/112	0.14 A to 100 A dc/ 3 A to 70 A ac*	5 A to 400 A dc/ 300 A to 400 A ac	5 A to 1000 A dc/ 300 A to 600 A ac	40 mA to 30 A dc/ 3 A to 20 A ac	40 mA to 30 A dc/ 3 A to 20 A ac	0.4 A to 450 A dc/ 30 A to 300 A ac
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
21/23/70/73/75/77 Series III	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
26/79 Series III	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
27	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
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 Insulation Meter	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
83-III/83-V/88-V	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
85-III/87-III/87-V	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
87-IV/89-IV/187/189	0.1 A to 100 A dc/ 0.1 A to 70 A ac*	1 A to 400 A dc/ 2.5 A to 400 A ac	1 A to 1000 A dc/ 2.5 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/ 0.25 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
8060A/8062A DMMs	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
860 Series Graphical Multimeters	0.1 A to 100 A dc/ 0.3 A to 70 A ac*	1 A to 400 A dc/ 30 A to 400 A ac	1 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
39/41B Power Meter	Usable but will read 10 or 100 times higher	1 A to 400 A ac** Not spec'd for dc	1 A to 600 A ac** Not spec'd for dc	Usable but will read 100 times higher**	Usable but will read 100 times higher	Not spec'd for dc 0.6 A to 300 A ac
9X ScopeMeter Series	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
123/124 ScopeMeters	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**	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 Scopemeters	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
45 DMM	0.1 A to 100 A dc/ 0.15 A to 70 A ac*	1 A to 400 A dc/ 15 A to 400 A ac	1 A to 1000 A dc/ 15 A to 600 A ac	30 mA to 30 A dc/ 150 mA to 20 A ac	30 mA to 30 A dc/ 150 mA to 20 A ac	0.1 A to 450 A dc/ 1.5 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
74X Series Process Calibrators	0.1 A to 100 A dc/ 1.1 A to 70 A ac*	1 A to 400 A dc/ 110 A to 400 A ac	1 A to 1000 A dc/ 110 A to 600 A ac	30 mA to 30 A dc/ 1.1 A to 20 A ac	30 mA to 30 A dc/ 1.1 A to 20 A ac	0.1 A to 450 A dc/ 11 A to 300 A ac
787/789 Process Meters	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

***Only for use with the 430 Series Power Quality Analyzers

AC/DC models

80i-110s

i410

i1010

i30s and i30 Hall Effect AC/DC Current Clamps

• Especially useful for low current measurements down to 30 milliamperes

New

i30s

i30

Power quality ac combo packs for 4-phase current measurements

i430flex 4-pack***

i5sPQ3