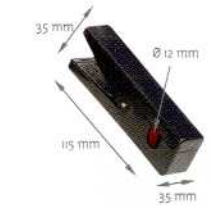
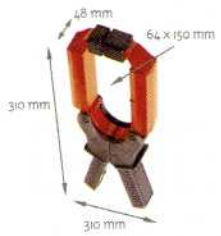
AC current measurement





Series	Model	Input: Measurement range (1)	Input: ~ AC	Input: ⎓ DC	Output / Connections: Current	Output / Connections: Voltage	Output / Connections: Leads + safety plug ø 4 mm	Output / Connections: Female sockets ø 4 mm	Output / Connections: BNC connector (oscilloscope)	Specific features: Transformation ratio (input/output)	Specific features: Output protected against overvoltage	Specific features: Automatic DC zero	Specific features: Power measurement (low phase shift)	Specific features: Bandwith (frequency in Hz)	Specific features: Typical accuracy	To Order
	Miniclamp 1	1 mA to 10 A 1 A to 100 A	●			10 V AC 0.1 V AC	●			1 mA/1 mV 1 A/1 mV				45 Hz..500 Hz	≤ 3 % ≤ 2 %	> P01.1050.01
	Miniclamp 2	1 A to 150 A	●			15 V DC (2)		●		1 A/100 mV				50 Hz..400 Hz	≤ 3%	> P01.1050.02
	Miniclamp 3	0.5 to 150 A	●		0.3 A AC			●		500/1				45 Hz..450 Hz	≤ 4%	> P01.1050.03
	Miniclamp 4	2 to 150 A	●		0.15 A AC			●		1000/1				45 Hz..1 kHz	≤ 2,5%	> P01.1050.04
	Miniclamp 5	50 mA to 100 A	●		0.1 A AC			●		1000/1			●	45 Hz..10 kHz	≤ 1%	> P01.1050.05
	MN08	0.5 to 240 A	●		0.2 A AC			●		1000/1				40 Hz..10 kHz	≤ 1%	> P01.1204.01
	MN09	0.5 to 240 A	●		0.2 A AC		●			1000/1				40 Hz..10 kHz	≤ 1%	> P01.1204.02
	MN010	0.5 to 240 A	●		0.2 A AC			●		1000/1	●			40 Hz..10 kHz	≤ 2%	> P01.1204.03
	MN011	0.5 to 240 A	●		0.2 A AC		●			1000/1	●			40 Hz..10 kHz	≤ 2%	> P01.1204.04
	MN012	0.5 to 240 A	●			2 V AC		●		1 A/10 mV				40 Hz..10 kHz	≤ 1%	> P01.1204.05
	MN013	0.5 to 240 A	●			2 V AC	●			1 A/10 mV				40 Hz..10 kHz	≤ 1%	> P01.1204.06
	MN014	0.5 to 240 A	●			0.2 V AC		●		1 A/1 mV				40 Hz..10 kHz	≤ 1%	> P01.1204.16
	MN015	0.5 to 240 A	●			0.2 V AC	●			1 A/1 mV				40 Hz..10 kHz	≤ 1%	> P01.1204.17
	MN021	0.1 to 240 A	●		0.2 A AC		●			1000/1	●			40 Hz..10 kHz	≤ 2%	> P01.1204.18
	MN023	0.1 to 240 A	●			2 V AC	●			1 A/10 mV				40 Hz..10 kHz	≤ 1.5%	> P01.1204.19
	MN038	0.1 to 24 A 0.5 to 240 A	●			2 V AC 2 V AC		●		1 A/100 mV 1 A/10 mV				40 Hz..10 kHz	≤ 1%	> P01.1204.07
	MN039	0.1 to 24 A 0.5 to 240 A	●			2 V AC 2 V AC	●			1 A/100 mV 1 A/10 mV				40 Hz..10 kHz	≤ 1%	> P01.1204.08
	MN060	0.1 to 60 A peak 0.5 to 600 A peak	●			2 V AC 2 V AC			●	1 A/100 mV 1 A/10 mV				40 Hz..40 kHz	≤ 2% ≤ 1.5%	> P01.1204.09
	MN071	10 mA to 12 A	●			1 V AC	●			1 A/100 mV				40 Hz..10 kHz	≤ 1%	> P01.1204.20
	MN073	10 mA to 2.4 A 100 mA to 240 A	●			2 V AC 2 V AC	●			1 mA/1 mV 1 A/10 mV				40 Hz..10 kHz	≤ 1% ≤ 2%	> P01.1204.21
	MN088	0.5 to 240 A	●			20 V DC (2)		●		1 A/100 mV				40 Hz..10 kHz	≤ 2%	> P01.1204.10
	MN089	0.5 to 240 A	●			20 V DC (2)	●			1 A/100 mV				40 Hz..10 kHz	≤ 2%	> P01.1204.15
	Y1N	4 A to 600 A	●		0.5 A AC		●			1000/1	●			48 Hz..1 kHz	≤ 3%	> P01.1200.01A
	Y2N	4 A to 600 A	●		0.5 A AC		●			1000/1	●			48 Hz..1 kHz	≤ 1%	> P01.1200.28A
	Y3N	4 A to 600 A	●		5 A AC		●			100/1				48 Hz..1 kHz	≤ 3%	> P01.1200.29A
	Y4N	4 A to 600 A	●			0.5 V DC (2)	●			500 A/ 0.5 V				48 Hz..1 kHz	≤ 1%	> P01.1200.05A
	Y7N	1 A to 1200 A peak	●			1 V AC			●	1 A/1 mV				5 Hz..10 kHz	≤ 2%	> P01.1200.75
	C100	0.1 to 1200 A	●		1 A AC			●		1000/1				30 Hz..10 kHz	≤ 0,5%	> P01.1203.01
	C102	0.1 to 1200 A	●		1 A AC			●		1000/1	●			30 Hz..10 kHz	≤ 0.5%	> P01.1203.02
	C103	0.1 to 1200 A	●		1 A AC		●			1000/1	●			30 Hz..10 kHz	≤ 0.5%	> P01.1203.03
	C106	0.1 to 1200 A	●			1 V AC		●		1 A/1 mV				30 Hz..10 kHz	≤ 0.5%	> P01.1203.04
	C107	0.1 to 1200 A	●			1 V AC	●			1 A/1 mV				30 Hz..10 kHz	≤ 0.5%	> P01.1203.05
	C112	1 mA to 1200 A	●		1 A AC			●		1000/1	●		●	30 Hz..10 kHz	≤ 0.3%	> P01.1203.14
	C113	1 mA to 1200 A	●		1 A AC		●			1000/1	●		●	30 Hz..10 kHz	≤ 0.3%	> P01.1203.15
	C116	1 mA to 1200 A	●			1 V AC		●		1 A/1 mV			●	30 Hz..10 kHz	≤ 0.3%	> P01.1203.16
	C117	1 mA to 1200 A	●			1 V AC	●			1 A/1 mV			●	30 Hz..10 kHz	≤ 0.3%	> P01.1203.17
	C122	1 to 1200 A	●		5 A AC			●		1000/5	●			30 Hz..10 kHz	≤ 1%	> P01.1203.06
	C148	1 to 300 A 1 to 600 A 1 to 1200 A	●		5 A AC			●		250/5 500/5 1000/5	●			48 Hz..1 kHz	≤ 2% ≤ 1% ≤ 1%	> P01.1203.07
	C160	0.1 to 30 A peak 0.1 to 300 A peak 1 to 2000 A peak	●			3 V peak 3 V peak 2 V peak			●	10 A/1 V 100 A/1 V 1000 A/1 V				10 Hz..100 kHz	≤ 3% ≤ 2% ≤ 1%	> P01.1203.08
	C173	1 mA to 1.2 A 0.01 to 12 A 0.1 to 120 A 1 to 1200 A	●			1 V AC	●			1 A/1 V 10 A/1 V 100 A/1V 1000 A/1 V				10 Hz..3 kHz	≤ 0.7% ≤ 0.5% ≤ 0.3% ≤ 0.2%	> P01.1203.09
	B102	500 µA to 4 A 0,5 to 400 A	●			4 V AC 0.4 V AC	●			1 mA/1 mV 1 A/1 mV	●			10 Hz..1 kHz	≤ 0,5% ≤0,35%	> P01.1200.83
	D30N	1 A to 3600 A	●		1 A AC			●		3000/1	●		●	30 Hz..5 kHz	≤ 0.5%	> P01.1200.49A
	D30CN	1 A to 3600 A	●		1 A AC		●			3000/1	●		●	30 Hz..5 kHz	≤ 0.5%	> P01.1200.64
	D31N	1 to 600 A 1 to 1200 A 1 to 1800 A	●		1 A AC			●		500/1 1000/1 1500/1	●			30 Hz..1.5 kHz	≤ 3% ≤ 1% ≤ 0.5%	> P01.1200.50A
	D32N	1 to 1200 A 1 to 2400 A 1 to 3600 A	●		1 A AC			●		1000/1 2000/1 3000/1	●		●	30 Hz..1 kHz	≤ 1% ≤ 0.5% ≤ 0.5%	> P01.1200.51A
	D33N	1 to 3600 A	●		5 A AC			●		3000/5				30 Hz..5 kHz	≤ 1%	> P01.1200.52A
	D34N	1 to 600 A 1 to 1200 A 1 to 1800 A	●		5 A AC			●		500/5 1000/5 1500/5				30 Hz..1.5 kHz	≤ 3% ≤ 1% ≤ 0.5%	> P01.1200.53A
	D35N	1 to 1200 A 1 to 2400 A 1 to 3600 A	●		5 A AC			●		1000/5 2000/5 3000/5			●	30 Hz..1.5 kHz	≤ 1% ≤ 0.5% ≤ 0.5%	> P01.1200.54A
	D36N	1 to 3600 A	●		3 A AC			●		3000/3	●		●	30 Hz..5 kHz	≤ 0.5%	> P01.1200.55A
	D37N	0.1 to 36 A RMS 1 to 360 A RMS 1 to 3600 A RMS	●			3 V AC		●		30 A/3 V 300 A/3 V 3000 A/3 V				30 Hz..5 kHz	≤ 2%	> P01.1200.56A
	D38N	1 to 90 A peak 1 to 900 A peak 1 to 9000 A peak	●			1 V AC			●	1 A/10 mV 1 A/1 mV 1 A/0.1 mV				30 Hz..50 kHz	≤ 2%	> P01.1200.57A

(1) The higher value corresponds to 120% of the max. nominal value (2) Reshaping of AC signal by diodes.

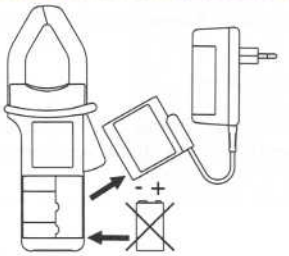
See product index page 64

AC / DC current measurement

Series	Model	Input: Measurement range (1) — Very low current	Low current	Medium current	Hot current	~ AC	⎓ DC	Output / Connections: Current	Voltage	Leads + safety plug ø 4 mm(2)	Female sockets ø 4 mm	BNC connector (oscilloscopes)	Specific features: Transformation ratio (input/output)	Output protected against overvoltage	Automatic DC zero	Power measurement (low phase shift)	Bandwith (frequency in Hz)	Typical accuracy	To Order
	K1	1 mA to 4.5 A DC 1 mA to 3 A RMS 1 mA to 4.5 A peak				●	●		4.5 V DC 3 V RMS 2 V peak	●			1 mA/1 mV				DC..2 kHz	≤ 1%	> P01.1200.67
	K2	100 µA to 450 mA DC 100 µA to 300 mA RMS 100 µA to 450 mA peak				●	●		4.5 V DC 3 V RMS 2 V peak	●			1 mA/10 mV				DC..1.5 kHz	≤ 1%	> P01.1200.74
	E1N	0.05 to 2 A DC 0.05 to 1.5 A AC 0.5 to 150 A AC/DC				●	●		2 V DC 1.5 V AC 150 mV AC/DC	●			1 A/1 V 1 A/1 mV				DC..2 kHz DC..8 kHz	≤ 2% ≤ 1.5%	> P01.1200.30A
	E3N	0.05 to 10 A peak 1 to 100 A peak				●	●		1 V peak			●	1 A/100 mV 1 A/10 mV				DC..100 kHz	≤ 3% ≤ 4%	> P01.1200.43A
	E6N	5 mA to 2 A DC 5 mA to 1.5 A AC 20 mA to 80 A AC/D				●	●		2 V DC 1.5 V AC 0.8 V AC/DC	●			1 A/1 V 1 A/10 mV				DC..2 kHz DC..8 kHz	≤ 2% ≤ 4%	> P01.1200.40A
	PAC10	0.5 to 400 A AC 0.5 to 600 A DC				●	●		600 mV AC/DC	●			1 A/1 mV				DC..5 kHz	≤ 2%	> P01.1200.70
	PAC11	0.2 to 40 A AC 0.4 to 60 A DC 0.5 to 400 A AC 0.5 to 600 A DC				●	●		600 mV AC/DC	●			1 A/10 mV 1 A/1 mV		●		DC..10 kHz	≤ 1.5% ≤ 2%	> P01.1200.68
	PAC12	0.2 to 60 A peak 0.4 to 60 A DC 0.5 to 600 A peak 0.5 to 600 A DC				●	●		600 mV AC/DC			●	1 A/10 mV 1 A/1 mV		●		DC..10 kHz	≤ 1.5% ≤ 2%	> P01.1200.72
	PAC20	0.5 to 1000 A AC 0.5 to 1400 A DC				●	●		1.4 V AC/DC	●			1 A/1 mV				DC..5 kHz	≤ 2%	> P01.1200.71
	PAC21	0.2 to 100 A AC 0.4 to 150 A DC 0.5 to 1000 A AC 0.5 to 1400 A DC				●	●		1.4 V AC/DC	●			1 A/10 mV 1 A/1 mV		●		DC..10 kHz	≤ 1.5% ≤ 2.5%	> P01.1200.69
	PAC22	0.2 to 150 A peak 0.4 to 150 A DC 0.5 to 1400 A peak 0.5 to 1400 A DC				●	●		1.4 V AC/DC			●	1 A/10 mV 1 A/1 mV		●		DC..10 kHz	≤ 1.5% ≤ 2.5%	> P01.1200.73

(1) The higher value corresponds to 120% of the max. nominal value
(2) Lead + electronic housing with Ø 4 mm safety plugs, centre distance 19 mm, for K series.

Bring an unlimited autonomy to your current clamps: replace the battery with the mains adapter plug



Adapter for...	Reference
E clamps	> P01.1019.68
K clamps	> P01.1019.66
PAC clamps	> P01.1019.67