

Type		METRACLIP 41	METRACLIP 410	METRACLIP 61	METRACLIP 62	METRACLIP 63	METRACLIP 64	METRACLIP 85	METRACLIP 86	METRACLIP 87	METRACLIP 88
Article Number		M320A	M320B	M311D	M311F	M311G	M311H	M312J	M311K	M312L	M312M
Pictures											
Description		AC/DC Clamp Ammeter	AC/DC Clamp Ammeter	AC Clamp Ammeter	AC/DC Clamp Ammeter	AC/DC Clamp Milliampere-meter	AC/DC Clamp Milliampere-meter	AC/DC Clamp Multimeter	AC/DC Clamp Multimeter	AC/DC Clamp Multimeter	AC/DC Clamp Multimeter
Specialties		Precise measurement of low DC and AC currents	Small, lightweight and handy of DC and AC currents	Small and lightweight; for low and high AC currents (sinusoidal)	Insensitive to magnetic interference fields thanks to double shielding	Precise measurement of low DC and AC currents (sinusoidal)	Precise measurement of low DC and AC currents (sinusoidal)	Multimeter functions, temperature measurement, Adapter function	Multimeter functions, power measurements	Multimeter functions, power measurements, data logger, analysis software	Multimeter functions, power measurements
AC Measuring Principle		TRMS	TRMS	average rectified value	TRMS	average rectified value	average rectified value	TRMS	TRMS	TRMS	TRMS
Current Measurements	AC (Bandwidth)	4.000 / 40.00 Arms (15 - 400 Hz)	40.00 / 400.0 Arms (15 - 400 Hz)	30.00 / 300.0 mA 30.00 / 300.0 A (50 - 60 Hz)	200.0 / 2000 mArms 9.99 Arms (40 Hz - 2 kHz)	99.99 / 999.9 mA 9.999 A (45 - 65 Hz)	99.99 / 999.9 mA 9.999 A (45 - 65 Hz)	60.00 / 600.0 Arms (10 Hz - 3 kHz)	60.00 / 600.0 Arms (10 Hz - 3 kHz)	99.99 / 999.9 Arms (10 Hz - 2 kHz)	99.99 / 999.9 / 2000 Arms (10 Hz - 1 kHz)
	DC	±4.000 / ±40.00 Adc	±40.00 / ±400.0 Adc	-	±200.0 / ±2000 mAdc ±9.99 Adc	±99.99 / ±999.9 mAdc	±99.99 / ±999.9 mAdc	±60.00 / ±600.0 / ±900 Adc	±60.00 / ±600.0 / ±900 Adc	±99.99 / ±999.9 / ±1500 Adc	±99.99 / ±999.9 / ±3000 Adc
	AC+DC	-	-	-	-	-	-	60.00 / 600.0 Arms 60.00 / 600.0 / 900 Apeak	60.00 / 600.0 Arms 60.00 / 600.0 / 900 Apeak	99.99 / 999.9 Arms 99.99 / 999.9 / 1500 Apeak	99.99 / 999.9 / 2000 Arms 99.99 / 999.9 / 3000 Apeak
	Inrush Current	-	-	-	-	-	-	6 ... 600 Arms/900 Apeak	6 ... 600 Arms/900 Apeak	10 ... 1000 Arms/1500 Apeak	20 ... 2000 Arms/3000Apeak
Voltage Measurements	AC (Bandwidth)	-	-	-	-	-	-	60.00 / 600.0 / 1000 Vrms (10 Hz - 3 kHz)	60.00 / 600.0 / 1000 Vrms (10 Hz - 3 kHz)	99.99 / 999.9 Vrms (10 Hz - 3 kHz)	99.99 / 999.9 Vrms (10 Hz - 3 kHz)
	DC	-	-	-	-	-	-	±60.00 / ±600.0 / ±1000 Vdc	±60.00 / ±600.0 / ±1000 Vdc	±99.99 / ±999.9 Vdc	±99.99 / ±999.9 Vdc
	AC+DC	-	-	-	-	-	-	60.00 / 600.0 / 1000 Vrms 60.00 / 600.0 / 1400 Vpeak	60.00 / 600.0 / 1000 Vrms 60.00 / 600.0 / 1400 Vpeak	99.99 / 999.9 Vrms 99.99 / 999.9 / 1400 Vpeak	99.99 / 999.9 Vrms 99.99 / 999.9 / 1400 Vpeak
Frequency Measurements	f(Uac)	-	-	-	-	-	-	5.0 Hz ... 19.99 kHz	5.0 Hz ... 19.99 kHz	5.0 Hz ... 19.99 kHz	5.0 Hz ... 19.99 kHz
	f(Iac)	-	-	-	-	-	-	5.0 ... 2999 Hz	5.0 ... 2999 Hz	5.0 ... 1999 Hz	5.0 ... 999.9 Hz
Power Measurements	Active Power	-	-	-	-	-	-	-	5999 W / 59.99 / 599.9 / 900 kW	9999 W / 99.99 / 999.9 / 1500 kW	9999 W / 99.99 / 999.9 / 3000 kW
	Apparent Power	-	-	-	-	-	-	-	5999 VA / 59.99 / 599.9 / 900 kVA	9999 VA / 99.99 / 999.9 / 1500 kVA	9999 VA / 99.99 / 999.9 / 3000 kVA
	Reactive Power	-	-	-	-	-	-	-	5999 var / 59.99 / 599.9 / 900 kvar	9999 var / 99.99 / 999.9 / 1500 kvar	9999 var / 99.99 / 999.9 / 3000 kvar
	PF	-	-	-	-	-	-	-	-1.00 ... +1.00	-1.00 ... +1.00	-1.00 ... +1.00
	DPF	-	-	-	-	-	-	-	-	0.00 ... 1.00	0.00 ... 1.00
Voltage and Current Distortion Measurements	Ripple	-	-	-	-	-	-	-	-	0.1 ... 1000 %	-
	Crestfactor CF	-	-	-	-	-	-	-	-	1.00 ... 10.00	1.00 ... 10.00
	THDr/THDf	-	-	-	-	-	-	-	0.0...100% / 0.0...1000%	THDr 0.0 ... 100 % THDf 0.0 ... 1000 %	THDr 0.0 ... 100 % THDf 0.0 ... 1000 %
	Invid. Harmon.	-	-	-	-	-	-	-	-	H01 ... H25	-
Resistance Measurement		-	-	-	-	-	-	0...59.99 kΩ	0...59.99 kΩ	0...99.99 kΩ	0...99.99 kΩ
Continuity Test		-	-	-	-	-	-	0...599.9 Ω	0...599.9 Ω	0...999.9 Ω	0...999.9 Ω
Diode Test		-	-	-	-	-	-	0...3.199 Vdc	0...3.199 Vdc	-	0...3.199 Vdc
Temperature Measurement	TC Type K	-	-	-	-	-	-	-60.0 ... +599.9 ... +1200 °C -76.0 ... +1111.8 ... +2192 °F	-	-	-
Phase Sequence		-	-	-	-	-	-	-	47 ... 400 Hz 50 ... 1000V	-	47 ... 400 Hz 50 ... 1000V
Adapter Function *)		-	-	-	-	-	-	0.5 ... 599.9 mVdc/mVrms 0.60 ... 5.99 Vdc/Vrms	-	-	-
Relative/Differential Measurements	absolute/%	-	-	-	▲ / -	-	-	▲ / ▲	▲ / ▲	-	▲ / ▲
Display Memory		HOLD	HOLD	HOLD	MIN / MAX / HOLD	HOLD	HOLD	MIN / MAX / HOLD	MIN / MAX / HOLD / PEAK	MIN / MAX / HOLD / PEAK	MIN / MAX / HOLD / PEAK
Data Logger	Capacity (Values)	-	-	-	-	-	-	-	-	3000	-
	Storage Interval	-	-	-	-	-	-	-	-	1 s ... 10 min	-
Interface		-	-	-	-	Analog Out 0 ... 100mVdc	Analog Out 0 ... 100mVdc	-	-	Bluetooth	-
Power Supply	Battery	9 V IEC 6F22/6LR61	9 V IEC 6F22/6LR61	2 x 1.5V LR44/SR 44	2 x 1.5 V LR6 (AA)	4 x 1.5 V LR6 (AA)	4 x 1.5 V LR6 (AA)	9 V IEC 6F22/6LR61	9 V IEC 6F22/6LR61	4 x 1.5 V LR6 (AA)	4 x 1.5 V LR6 (AA)
Dimensions	mm	193 x 64 x 31	193 x 64 x 31	64 x 176 x 23	76 x 194 x 30	Sensor: 19 x 113 x 28 Messgerät: 78 x 155 x 23	Sensor: 33 x 170 x 24 Messgerät: 78 x 155 x 23	222 x 78 x 42	222 x 78 x 42	272 x 92 x 41	296 x 11 x 41
Clamp Jaw Opening	mm	25	25	40	18	5	30	34	34	48	60
Meas. Category	IEC61010-1	300 V CAT III	300 V CAT III	300 V CAT III	300 V CAT III	300 V CAT III	300 V CAT III	1000 V CAT III 600 V CAT IV	1000 V CAT III 600 V CAT IV	1000 V CAT IV	1000 V CAT IV
Included Accessories		- / optional carrying pouch	- / optional carrying pouch	imitation leather bag	imitation leather bag	carrying pouch analogue output cable	carrying pouch analogue output cable	1 pair safety test leads with test probes, temperature probe 0-+200°C, carrying pouch	1 pair safety test leads with 2 attachable test probes and 1 alligator clip, carrying pouch	1 pair safety test leads with 2 attachable test probes and 2 alligator clips, carrying pouch, PC software for data analysis	1 pair safety test leads with 2 attachable test probes and 1 alligator clip, carrying pouch

*) e.g. for connection of flexible current probes or measuring transducers