



Digital Current Clamp Multimeter

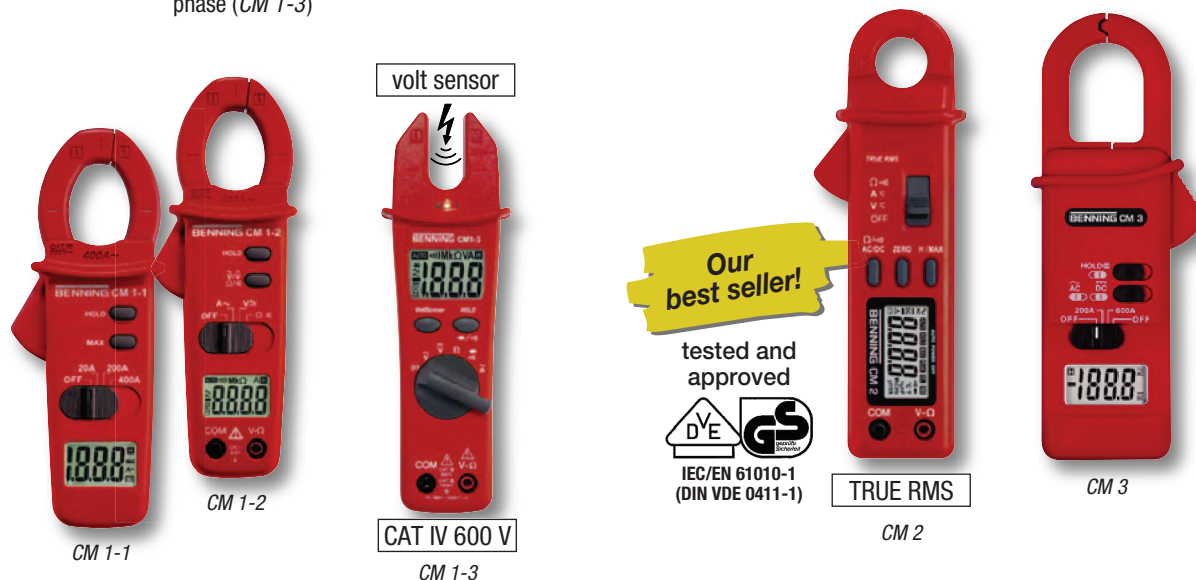
for AC/DC current

BENNING CM 1-1, CM 1-2, CM 1-3, CM 4 and CM 6 Digital Current Clamp Multimeter for AC current Innovative technology, practical design

- safe current measuring up to max. 1000 A AC
- measuring inputs for voltage, resistance, continuity and diode test
- integrated volt sensor signals phase voltages by means of an acoustic signal and a red LED signal (CM 1-3)
- it localizes cable breaks and defective lamps in exposed cables (cable reel, light chains) via the feeding side of the phase (CM 1-3)

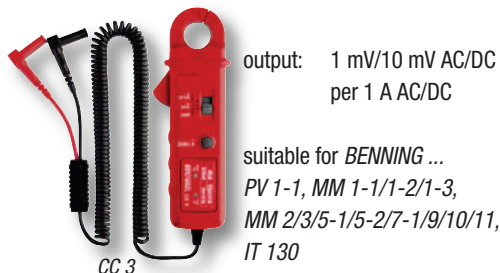
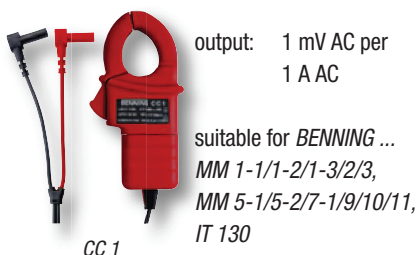
BENNING CM 2 and CM 3 Digital Current Clamp Multimeter for AC/DC current

- safe and non-contact measuring of high currents
- DC and AC current measuring up to 600 A AC/DC
- measurement of low currents (automotive, photovoltaics, industry) (CM 2)
- measuring inputs for voltage, resistance and continuity test (CM 2)
- precise due to TRUE RMS measuring method (CM 2)



BENNING CC 1 and CC 3 AC and AC/DC current clamp adapters

- safe current measuring up to max. 400 A AC
- connection via 4 mm safety measuring leads



Digital Current Clamp Multimeter/Current Clamp Adapter

	BENNING CC 1	BENNING CC 3	BENNING CM 1-1	BENNING CM 1-2	BENNING CM 1-3	BENNING CM 3	BENNING CM 4	BENNING CM 6
indicating range	—	—	2000	2000	2000	2000	4000	4000
basic accuracy	1.9 %	1 % – 2 %	2 %	1 %	1 %	1.9 %	0.7 %	0.7 %
AC voltage	—	—	—	0.1 V – 600 V	0.1 V – 750 V	—	0.1 V – 600 V	0.1 V – 750 V
DC voltage	—	—	—	0.1 V – 600 V	0.1 V – 1000 V	—	0.1 V – 600 V	0.1 V – 1000 V
AC current	1 A – 400 A	0.2 A – 300 A	10 mA – 400 A	0.1 A – 400 A	0.1 A – 200 A	0.1 A – 600 A	0.1 A – 600 A	0.1 A – 1000 A
DC current	—	0.2 A – 300 A	—	—	—	0.1 A – 600 A	—	—
resistance	—	—	—	0.1 Ω – 20 MΩ	0.1 Ω – 20 MΩ	—	0.1 Ω – 400 Ω	0.1 Ω – 400 Ω
continuity/diode	—/—	—/—	—/—	yes/—	yes/yes	—/—	yes/—	yes/—
frequency	—	—	—	—	—	—	1 Hz – 400 Hz	1 Hz – 400 Hz
effective power	—	—	—	—	—	—	—	—
power factor (cos φ)	—	—	—	—	—	—	—	—
temperature	—	—	—	—	—	—	—	—
volt sensor	—	—	—	—	yes	—	—	—
memory	—	—	HOLD, MAX	HOLD	HOLD	HOLD	HOLD, MAX/MIN, PEAK	HOLD, MAX/MIN, PEAK
measuring method	—	—	RMS	RMS	RMS	RMS	RMS	RMS
max. clamp opening	30 mm	25 mm	30 mm	30 mm	16 mm	38 mm	37 mm	53 mm
measuring category	CAT III 300 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT IV 600 V	CAT III 300 V	CAT III 600 V	CAT IV 600 V
item no.	044037	044038	044061	044062	044063	044031	044056	044058

TRUE RMS Digital Current Clamp Multimeter

TRUE RMS measuring method to satisfy highest demands on accuracy

BENNING CM 5-1, CM 7, CM 8

TRUE RMS AC/DC Current Clamp Multimeter

- highest measuring category CAT IV 600 V (CM 6, CM 7)
- automatic selection of the measuring function (V AC/DC, A AC/DC, Ω and low input impedance LoZ (CM 5-1))
- effective power measurements (kW) and power factor measurements (CM 8)



CAT IV 600 V
TRUE RMS

CM 5-1

CAT IV 600 V
TRUE RMS

CM 7
(CM 6 fig. similar)

TRUE RMS

CM 8
(CM 4 fig. similar)

BENNING CFlex 1, CFlex 2

Flexible AC current transformers up to 3000 A

- measuring loop (46 cm) with high flexibility for narrow measuring points and large cable cross-sections
- length of connecting cable: 1.8 m
- analog output is universally applicable for all multimeters and oscilloscopes via 4 mm safety plugs (CFlex 1)
- large 4 digit LC display with illumination (CFlex 2)
- TRUE RMS measuring method (CFlex 2)

BENNING CM 9

TRUE RMS Leakage Current Clamp with a resolution of 1 μ A

- measurement of leakage currents and differential currents in electrical systems (IEC 60364) and devices (EN 62638)
- highest resolution of 1 μ A in the 6 mA measuring range
- measurement without switch-off during normal operation of the system/device, the perfect solution for preventive maintenance
- precise and reproducible measuring results up to 100 A
- optimum screening against external magnetic fields



Leakage

TRUE RMS

CM 9

BENNING CM 11

TRUE RMS Milliampere AC/DC Current Clamp Multimeter with a resolution of 0.1 mA

- highest resolution of 0.1 mA AC/DC
- ideal for troubleshooting in electrical installations, devices, automotive engineering, control systems (4 to 20 mA process signals) as well as in fire and intrusion alarm systems
- multifunctional use fore voltage (600 V), resistance measurements (600 k Ω) and continuity tests
- compact dimensions with a clamp opening of 23 mm



Output:
100/10/1 mV per A

CFlex 1

TRUE RMS

CFlex 2



TRUE RMS

CM 11

TRUE RMS Digital Current Clamp Multimeter

	BENNING CM 2	BENNING CM 5-1	BENNING CM 7	BENNING CM 8	BENNING CM 9	BENNING CM 11	BENNING CFlex 1	BENNING CFlex 2
indicating range	4000	9999	4000	6000	6000	6000	—	6000
basic accuracy	0.5 %	0.9 %	0.7 %	0.7 %	1 %	1.0 %	3 %	3 %
AC voltage	1 mV – 600 V	1.3 V – 750 V	0.1 V – 750 V	10 mV – 600 V	—	0.01 V – 600 V	—	—
DC voltage	0.1 mV – 600 V	0.7 V – 1000 V	0.1 V – 1000 V	10 mV – 600 V	—	0.1 mV – 600 V	—	—
AC current	100 mA – 300 A	0.9 A – 600 A	0.1 A – 1000 A	0.1 A – 600 A	1 μ A – 100 A	0.1 mA – 20 A	0.3 A – 3000 A	0.1 A – 3000 A
DC current	10 mA – 300 A	0.9 A – 600 A	0.1 A – 1000 A	0.1 A – 600 A	—	0.1 mA – 10 A	—	—
resistance	0.1 Ω – 40 M Ω	1 Ω – 10 k Ω	0.1 Ω – 400 Ω	0.1 Ω – 20 k Ω	—	0.1 Ω – 600 k Ω	—	—
continuity/diode	yes/—	yes/yes	yes/—	yes/yes	—/—	yes/—	—	—
frequency	—	—	1 Hz – 400 Hz	0.1 Hz – 4 kHz	—	—	—	—
effective power	—	—	—	360 kW	—	—	—	—
power factor (cos ϕ)	—	—	—	± 0.00 – 1.00	—	—	—	—
temperature	—	—	—	-50 °C up to +1000 °C	—	—	—	—
volt sensor	—	—	—	—	—	—	—	—
memory	HOLD, MAX	HOLD	HOLD, MAX/MIN PEAK, ZERO	HOLD, MAX/MIN PEAK, INRUSH	HOLD, PEAK	HOLD, PEAK	—	HOLD, MIN/MAX
measuring method	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS	—	TRUE RMS
max. clamp opening	25 mm	35 mm	53 mm	40 mm	40 mm	23 mm	160 mm	160 mm
measuring category	CAT III 300 V	CAT IV 600 V	CAT IV 600 V	CAT III 600 V	CAT III 300 V	CAT IV 300 V	CAT III 600 V	CAT IV 600 V
item no.	044035	044066	044059	044064	044065	044067	044068	044069