

OVERVIEW OF THE TEST AND MEASUREMENT FUNCTIONS

DIGITAL CURRENT CLAMP MULTIMETER/LEAKAGE CURRENT CLAMP



	BENNING CM 1-2	BENNING CM 1-4	BENNING CM 2	BENNING CM 2-1	BENNING CM 10-1	BENNING CM 11	BENNING CM 12
Display range	2,000	9,999	4,000	4,000	6,000	6,000	9,999
Basic accuracy	1.0%	1.0%	0.5%	2.0%	1.0%	1.0%	1.0%
Voltage AC	0.1 V - 600 V	6 V - 1000 V	1 mV - 600 V	0.1 mV - 600 V	0.1 mV - 1000 V	0.01 V - 600 V	10 mV - 1000 V
Voltage DC	0.1 V - 600 V	6 V - 1000 V	0.1 mV - 600 V	0.1 mV - 600 V	0.1 mV - 1000 V	0.1 mV - 600 V	10 mV - 1000 V
Current AC	100 mA - 400 A	0.1 A - 200 A	100 mA - 300 A	10 mA - 400 A	10 mA - 1500 A	0.1 mA - 20 A	10 mA - 600 A
Current DC	-	-	10 mA - 300 A	10 mA - 400 A	10 mA - 1500 A	0.1 mA - 10 A	10 mA - 600 A
Resistance	0.1 Ω - 20 MΩ	1 Ω - 50 kΩ	0.1 Ω - 40 MΩ	0.1 Ω - 40 MΩ	0.1 Ω - 600 kΩ	0.1 Ω - 600 kΩ	0.1 Ω - 100 kΩ
Continuity/diode	Yes/ -	Yes/ -	Yes/ -	Yes/Yes	Yes/Yes	Yes/ -	Yes/Yes
Volt sensor	-	-	-	Yes	Yes	-	Yes
MIN/MAX memory/ ZERO function	HOLD	HOLD	HOLD, PEAK, ZERO	HOLD, MAX/ MIN ZERO	HOLD, MIN/MAX, INRUSH, ZERO	HOLD, MIN/ MAX, ZERO	HOLD, PEAK, MAX/MIN
Measurement method	RMS	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS
Clamp opening	30 mm	16 mm	25 mm	27 mm	42 mm	23 mm	33 mm
Measurement category	CAT III 600 V	CAT IV 600 V	CAT III 300 V	CAT IV 300 V	CAT IV 600 V	CAT IV 300 V	CAT IV 600 V
Article no.	4000 828 957	4000 828 948	4000 828 873	4000 828 956	4000 828 955	4000 828 923	4000 828 943

INSULATION/RESISTANCE METER ACCORDING TO STANDARD DIN VDE 0100



	BENNING IT 101
Measurements according to standard DIN VDE 0100/0105	Insulation, calculation of the resulting leakage current (test voltages 50 V ... 1000 V), low-impedance resistance
Display range	4,000 digit (lighting)
Voltage AC/DC	0.1 V - 600 V AC/DC TRUE RMS
Insulation resistance	1 kΩ - 20 GΩ
Low-impedance resistance	0.01 Ω - 40 Ω
Resistance	0.01 Ω - 40 kΩ
Measured value memory	500 measurement results
Measurement category	CAT IV 600 V
Additional feature	Leakage current, polarisation index (PI), absorption degree (DAR), automatic discharge function, Zero comparison of measuring lines, red LED for external voltage, green LED
Article no.	4000 828 900

INSTALLATION TESTERS



	BENNING IT 105	BENNING IT 130
Display	Graphic display (illuminated)	Graphic display (illuminated)
Low-impedance measurement	0.15 Ω - 199 kΩ	0.01 Ω - 2 kΩ
Insulation resistance	0.20 kΩ - 199 MΩ	10 kΩ - 1000 MΩ
Line impedance (L-N/L)	0.20 Ω - 1999 kΩ	0.01 Ω - 10 kΩ
Loop impedance (L-PE)	0.20 Ω - 1999 kΩ	0.01 Ω - 10 kΩ
Short-circuit current	up to 26 kA	0.01 A - 200 kA
Residual current test type AC/A/F and B/B+	Trip time ½ x, 1 x and 5 x IΔN, AUTO Trip current (ramp)	Trip time, Trip current (ramp) Touch voltage, auto testing
Test current	sinusoidal (AC), pulsating (A) 10/30/100/300/500 mA	-
Rotating field testing	right/left	-
Rotating field	-	Yes
Voltage (TRUE RMS), frequency	1 V - 440 V, 45 Hz - 65 Hz	1 V - 550 V, 0 Hz - 500 Hz
Grounding resistance	-	0.01 Ω - 2,000 Ω (via earthing set)
Current (TRUE RMS)	-	0.1 mA - 400 A (via pliers)
Light intensity	-	0.01 lux - 20 klux (via sensor)
Measured value memory	-	up to 1,800 measurement results
Interfaces	-	USB, RS 232
incl. software	-	BENNING PC-Win IT 130
Article no.	4000 828 939	4000 828 919