

# OVERVIEW OF THE TEST AND MEASUREMENT FUNCTIONS

## DIGITAL MULTIMETER



	<i>BENNING MM P3</i>	<i>BENNING MM 1-2</i>	<i>BENNING MM 1-3</i>	<i>BENNING MM 1</i>	<i>BENNING MM 2</i>	<i>BENNING MM 3</i>	<i>BENNING MM 4</i>
<b>Display range</b>	5,000	2,000	2,000	3,200	2,000	2,000	4,200
<b>Basic accuracy</b>	0.6%	0.5%	0.5%	0.50%	0.50%	0.50%	0.50%
<b>Voltage AC</b>	0.1 mV - 600 V	0.1 mV - 750 V	0.1 mV - 750 V	1 mV - 600 V	0.1 mV - 750 V	0.1 mV - 600 V	1 mV - 600 V
<b>Voltage DC</b>	0.1 mV - 600 V	0.1 mV - 1,000 V	0.1 mV - 1,000 V	0.1 mV - 600 V	0.1 mV - 1,000 V	0.1 mV - 600 V	1 mV - 600 V
<b>Current AC</b>	–	1 mA - 10 A	1 mA - 10 A	–	0.1 µA - 20 A	0.1 µA - 20 A	0.1 A - 300 A
<b>Current DC</b>	–	1 mA - 10 A	1 mA - 10 A	0.1 µA - 3.2 mA	0.1 µA - 20 A	0.1 µA - 20 A	–
<b>Resistance</b>	0.1 Ω - 40 MΩ	0.1 Ω - 20 MΩ	0.1 Ω - 20 MΩ	0.1 Ω - 32 MΩ	0.1 Ω - 20 MΩ	0.1 Ω - 20 MΩ	0.1 Ω - 42 MΩ
<b>Continuity/diode</b>	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
<b>Frequency</b>	0.001 Hz - 5 MHz	1 Hz - 20 MHz	1 Hz - 20 MHz	–	–	1 Hz - 200 kHz	–
<b>Capacitance</b>	10 pF - 100 µF	1 pF - 2 mF	1 pF - 2 mF	–	–	1 pF - 200 µF	–
<b>Temperature</b>	–	–	-20°C to +800°C	–	–	–	–
<b>Volt sensor</b>	–	Yes	Yes	–	–	–	–
<b>Interface</b>	–	–	–	–	–	–	–
<b>Software</b>	–	–	–	–	–	–	–
<b>Memory/ data logger function</b>	HOLD –	HOLD MAX/MIN	HOLD, MAX/MIN	HOLD –	–	–	HOLD –
<b>Measurement method</b>	RMS	RMS	RMS	RMS	RMS	RMS	RMS
<b>Measurement category</b>	CAT III 300 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 300 V	CAT III 300 V
<b>Article no.</b>	4000 828 857	4000 828 947	4000 828 860	4000 828 863	4000 828 865	4000 828 867	4000 828 875

## DIGITAL MULTIMETER



	<i>BENNING MM 5-2</i>	<i>BENNING MM 6-2</i>	<i>BENNING MM 7-1</i>	<i>BENNING MM 12</i>
<b>Display range</b>	6,000	6,000	6,000	40,000
<b>Basic accuracy</b>	0.5%	0.5%	0.08%	0.5%
<b>Voltage AC</b>	0.1 mV - 600 V	0.1 mV - 1000 V	10 µV - 1,000 V	10 µV - 1000 V
<b>Voltage DC</b>	0.1 mV - 600 V	0.1 mV - 1000 V	10 µV - 1,000 V	10 µV - 1000 V
<b>Current AC</b>	1 mA - 10 A	1 mA - 10 A	10 µA - 10 A	10 µA - 10 A
<b>Current DC</b>	0.1 µA - 10 A	1 mA - 10 A	10 µA - 10 A	10 µA - 10 A
<b>Resistance</b>	0.1 Ω - 40 MΩ	0.1 Ω - 40 MΩ	0.1 Ω - 40 MΩ	0.1 Ω - 40 MΩ
<b>Continuity/diode</b>	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
<b>Frequency</b>	0.01 Hz - 50 kHz	0.01 Hz - 100 kHz	0.01 Hz - 100 kHz	0.1 Hz - 100 kHz
<b>Capacitance</b>	0.01 nF - 1 mF	1 nF - 10 mF	1 nF - 10 mF	0.01 nF - 40 mF
<b>Temperature</b>	-40 °C to +400 °C	–	-40 °C to +400 °C	-200 °C - +1200 °C
<b>Volt sensor</b>	Yes	Yes	Yes	–
<b>Interface</b>	–	–	–	Bluetooth, USB
<b>Software</b>	–	–	–	PC-Win MM 12
<b>Memory/ data logger function</b>	HOLD, PEAK	HOLD, PEAK	HOLD, MAX/MIN –	HOLD, PEAK, MAX/MIN/ AVG
<b>Measurement method</b>	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS
<b>Measurement category</b>	CAT III 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V
<b>Article no.</b>	4000 828 866	4000 828 936	4000 828 879	4000 828 924

## DIGITAL CURRENT CLAMP MULTIMETER/LEAKAGE CURRENT CLAMP



	<i>BENNING CM P1</i>	<i>BENNING CM P2</i>
<b>Display range</b>	4,200	4,200
<b>Basic accuracy</b>	0.5%	0.5%
<b>Voltage AC</b>	–	–
<b>Voltage DC</b>	–	–
<b>Current AC</b>	10 mA - 400 A	10 mA - 400 A
<b>Current DC</b>	–	10 mA - 400 A
<b>Resistance</b>	–	–
<b>Continuity/diode</b>	–	–
<b>Volt sensor</b>	Yes	Yes
<b>MIN/MAX memory/ ZERO function</b>	HOLD	HOLD, ZERO
<b>Measurement method</b>	TRUE RMS	TRUE RMS
<b>Clamp opening</b>	23 mm	23 mm
<b>Measurement category</b>	CAT III 600 V	CAT III 600 V
<b>Article no.</b>	4000 828 937	4000 828 938

No liability is accepted for misprints, incorrect technical data and figures.