TRUE RMS Digital Multimeter BENNING MM 7-1, MM 12

for all sophisticated measuring tasks in industry and trade

BENNING MM 7-1

with highest safety for industrial applications

- highest measuring category CAT IV 600 V for highest safety
- "AutoV" function for automatic AC/DC voltage detection and low input impedance (LoZ) to suppress reactive voltages
- the integrated Volt sensor signalises non-contact phase voltages and cable breaks in cables (buzzer/LCD)
- LC display with bar graph indication and illumination
- delivery including rubber holster, case, battery, measuring leads and wire temperature sensor

BENNING MM 12

with logging function and Bluetooth®

- data logger (40000 measured values) and memory function (1000 measured values)
- Bluetooth® Low Energy 4.0 and USB interface
- · PC software for further evaluation
- free IOS and Android app for data link to smartphone/tablet
- "AutoV" function with low input impedance (LoZ) to suppress reactive voltages
- · highest measuring category CAT IV 600 V for highest safety
- LC display with bar graph indication and illumination
- delivery including PC software, USB data cable, rubber holster, magnetic holder, case, batteries, measuring leads, wire temperature sensor and calibration certificate





MM 12









TRUE RMS CAT IV 600 V



Evaluation via PC software

TRUE RMS Digital Multimeter

	BENNING MM 7-1	BENNING MM 12
indicating range	6000	40000
basic accuracy	0.08 %	0.5 %
AC voltage	10 μV - 1000 V	10 μV - 1000 V
DC voltage	10 μV - 1000 V	10 μV - 1000 V
AC current	10 μA - 10 A	10 μA - 10 A
DC current	10 μΑ - 10 Α	10 μA - 10 A
resistance	0.1 Ω - 40 ΜΩ	0.1 Ω - 40 MΩ
continuity/diode	• / •	• / •
frequency	0.01 Hz - 100 kHz	0.1 Hz - 100 kHz
capacity	1 nF - 10 mF	0.01 nF - 40 mF
temperature	-40 °C up to +400 °C	-200 °C up to +1200 °C
volt sensor	•	_
interface	_	Bluetooth®, USB
software	-	PC, App
memory	HOLD, MAX/MIN	HOLD, PEAK, MAX/MIN, SAVE
Data Log function	_	40000 measured values
measuring method	TRUE RMS	TRUE RMS
measuring category	CAT IV 600 V	CAT IV 600 V
item no.	044085	044088

See page 14 for further accessories

Measuring range indications refer to ranges from highest resolution to the final measuring range value.







Simultaneous monitoring of up to 5 digital multimeters from a safe distance $\,$

Accessories for Digital Multimeter

safe – functional – indispensable

	Description	Product data	ltem no.	MM P3	MM 1-1	MM 1-2	MM 1-3	MM 1	MM 2	MM 3	MM 4	MM 5-1	MM 5-2	MM 6-1	MM 6-2	MM 7-1	MM 12
urrent Clar	np Adapters			_		_	_	_	_	_	_	_	_	_	_		
79	BENNING CC 1 AC current clamp adapter	basic accuracy: 1.9 % current: 1 A - 400 A AC output: 1 mV AC per 1 A AC	044037		•	•	•		•	•		•	•	•	•	•	•
	BENNING CC 3 AC/DC current clamp adapter	basic accuracy: 1 % - 2 % current: 0.2 A - 300 A AC/DC output: 1 mV/10 mV AC/DC per 1 A AC/DC	044038		•	•	•		•	•		•	•	•	•	•	•
	BENNING CFIex 1 AC current transformer	basic accuracy: 3 % current: 0,3 A - 3000 A AC output: 100 mV/10 mV/1 mV AC per 1 A AC	044068		•	•	•		•	•		•	•	•	•	•	•
tand-by ca	ses																
	Stand-by case size S dimensions: 220 x 110 x 50 mm	with belt loop on the back, made of hard-wearing nylon fabric	010912		•	•	•	•				•	•	•	•		
persone	Stand-by case size M dimensions: 240 x 180 x 70 mm	made of hard-wearing nylon fabric	010913		•	•	•	•		•	•	•		•	•	•	•
Aeasuring a	accessories																
*	BENNING TA 1 crocodile clips, two pieces	Ø 4 mm plug-in technology, red/black, professional equipment, CAT III 1000 V	044124		•	•	•	•	•	•		•	•	•	•	•	•
8411	BENNING TA 2 set of measuring leads, six pieces	Ø 4 mm plug-in technology, red/black, professional equipment, consisting of: measuring leads (silicone) CAT III 1000 V, test probes (Ø 4 mm measuring tip) CAT II 1000 V, crocodile clips CAT III 1000 V	044125		•	•	•	•	•	•	•	•	•	•	•	•	•
	BENNING TA 3 set of measuring leads, eight pieces	Ø 4 mm plug-in technology, red/black, professional equipment, CAT III 1000 V, consting of: measuring leads (silicone), test probes (slender measuring tip), claw clamps, crocodile clips	044126		•	•	•	•	•	•	•	•	•	•	•	•	•
	BENNING TA 4 magnetic holder, three pieces	For attachment of multimeters to switching cabinets, machine and system parts, Consisting of: magnetic holder, adapter and belt	044120		•	•	•	•	•	•		•	•	•	•	•	•
	Ø 4 mm safety measuring leads with 2 mm measuring tip, two pieces	Red/black, L = 1.40 m, with \emptyset 2 mm measuring tip (L = 18 mm), CAT IV 600 V/CAT III 1000 V (with protective caps), CAT II 1000 V (without protective caps)	044146		•	•	•	•	•	•	•	•	•	•	•	•	•
	Ø 4 mm safety measuring leads with 4 mm measuring tip, two pieces	Red/black, L = 1.40 m, with \emptyset 4 mm measuring tip (L = 18 mm), CAT IV 600 V/CAT III 1000 V (with protective caps), CAT II 1000 V (without protective caps)	044145		•	•	•	•	•	•	•	•	•	•	•	•	•
	Set of measuring leads for BENNING MM 4, Ø 4 mm plug-in technology, three pieces	Consisting of: measuring lead with Ø 2 mm measuring tip, 2 measuring probes with Ø 2 mm measuring tip	044119								•						
8	Temperature probe, type K, insertion probe (V4A steel tube)	For flexible substances, liquids, gases and air. Measuring range: - 196 °C up to + 800 °C	044121				•						•	•		•	٠
eramic fus	е																
without figure	440 mA fuses packaging unit 10 pieces	fast-acting, breaking capacity 10 kA, rated voltage 1000 V, dimensions 10 x 35 mm	10016655													•	•
without figure	1 A fuses packaging unit 10 pieces	fast-acting, rated current 1 A, rated voltage 500 V, dimensions $6.3 \times 32 \text{ mm}$	749669						•	•							
without figure	10 A fuses packaging unit 10 pieces	fast-acting, rated current 10 A, breaking capacity 50 kA, rated voltage 600 V, dimensions 10 x 38 mm	748263			•	•										
without figure	11 A fuses packaging unit 10 pieces	fast-acting, rated current 11 A, breaking capacity 20 kA, rated voltage 1000 V, dimensions 10 x 38 mm	10016656												•	•	•
without figure	15 A fuses packaging unit 10 pieces	fast-acting, rated current 15 A, breaking capacity 50 kA, rated voltage 600 V, dimensions 10.3 x 38.1 mm	10149447										•				
without figure	16 A fuses packaging unit 10 pieces	fast-acting, rated current 16 A, rated voltage 500 V, dimensions 6.3 x 32 mm	749770						•	•							