

Digital Multimeter **BENNING 7-1 – MM 11** safety and functional diversity without any compromises

BENNING MM 7-1 Digital Multimeter offering highest safety for industrial applications

- TRUE RMS measuring method for precise measuring results even for non-sinusoidal signal characteristics
- 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 capacitively/inductively induced voltages
- integrated Volt sensor for non-contact signalling of phase voltages and cable breaks in lines
- LC display with bargraph indication and background lighting



CAT IV 600 V
TRUE RMS

MM 7-1

BENNING MM 9, MM 10 Digital Multimeter of the highest measuring category CAT IV

- highest measuring category CAT IV 600 V allows measurements direct at the source of the low-voltage installation
- precise due to TRUE RMS measuring method
- transmitting measuring results via optical USB interface
- delivery including software *BENNING PC-Win MM 10*



CAT IV 600 V
TRUE RMS

MM 9



CAT IV 600 V
TRUE RMS

MM 10



TRUE RMS

MM 11

BENNING MM 11 Precision Digital Multimeter with extraordinary features of performance

- highest measuring accuracy of 0.06 % due to TRUE RMS measuring method and 20000 digit resolution
- an ideal measuring device for recording of measuring processes
- large memory capacity of 1000 storage locations and 40000 storage locations for Data Log functions
- transmitting measuring results via optical USB interface
- delivery including software *BENNING PC-Win MM 11*

Digital Multimeter

	BENNING MM 4	BENNING MM 7-1	BENNING MM 9	BENNING MM 10	BENNING MM 11
indicating range	4200	6000	6000	6000	20000
basic accuracy	0.5 %	0.08 %	0.5 %	0.5 %	0.06 %
AC voltage	1 mV – 600 V	10 µV – 1000 V	0.1 mV – 750 V	0.1 mV – 750 V	1 µV – 750 V
DC voltage	1 mV – 600 V	10 µV – 1000 V	0.1 mV – 1000 V	0.1 mV – 1000 V	1 µV – 1000 V
AC current	0.1 A – 300 A	10 µA – 10 A	1 mA – 10 A	1 mA – 10 A	1 µA – 10 A
DC current	–	10 µA – 10 A	0.1 µA – 10 A	0.1 µA – 10 A	1 µA – 10 A
resistance	0.1 Ω – 42 MΩ	0.1 Ω – 40 MΩ	0.1 Ω – 60 MΩ	0.1 Ω – 60 MΩ	10 mΩ – 2 GΩ
continuity/diode	yes/yes	yes/yes	yes/yes	yes/yes	yes/yes
frequency	–	0.01 Hz – 100 kHz	1 Hz – 60 MHz	1 Hz – 60 MHz	0.01 Hz – 1 MHz
capacity	–	1 nF – 10 mF	1 pF – 6 mF	1 pF – 6 mF	1 pF – 40 mF
temperature	–	-40 °C up to +400 °C	–	–	-200 °C up to +1200 °C
volt sensor	–	yes	–	–	–
interface	–	–	–	USB	USB
software	–	–	–	<i>PC-Win MM 10</i>	<i>PC-Win MM 11</i>
memory	HOLD	HOLD, MAX/MIN	HOLD, MAX/MIN	HOLD, MAX/MIN	1000 memory locations
Data Log function	–	–	–	–	40000 memory locations
measuring method	RMS	TRUE RMS	TRUE RMS	TRUE RMS	TRUE RMS
measuring category	CAT III 300 V	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT III 600 V
item no.	044073	044085	044078	044079	044080

BENNING PC-Win MM 10/MM 11 Software for logging and analysis

- software for reading and logging of measurement series
- visualisation of measurement series via line diagram and table
- scanning rate variable from 0.5 sec. up to 10 min.
- storage of measurement series as text file



Software *PC-Win MM 10/MM 11*



All Digital Multimeters including protective case, safety leads and battery set.