

Megger.



SPECIFICATIONS

INSULATION RANGES

Nominal Test Voltage (d.c.):

50 V, 100 V, 250 V, 500 V and 1000 V
(1000 V not available on BM81/2.)

Measuring Range

BMM80 0,01 MΩ to 200 GΩ
(0 - 100 GΩ on analogue scale)

EN61157 Operating range: 0,10 Ω to 99,9 MΩ

Test voltage accuracy: +20% maximum on open circuit

Short circuit current: < 2 mA

Test Current on load:

1 mA at min. pass value of insulation specified in BS7671, HD384 and IEC364, 2 mA max.

Accuracy: ±2% ±2 digits ±0.2% per GΩ

Auto-Discharge facility safely discharges the connected circuit after a test

Live Circuit Warning

Provides automatic warning when connected to live circuits. Threshold 25 V

Continuity

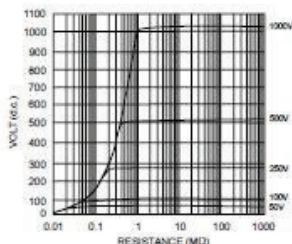
Measuring Range: 0,01 Ω to 99,9 Ω
(0 to 10 Ω on analogue scale)

EN61577 Operating Range: 0,10 Ω to 99,9 Ω

Accuracy: ±2% ±2 digits

Open circuit voltage: 5 V ±1 V

Test current: 210 mA ±10 mA (0 - 2 Ω)



Zero offset at probe tips: 0,10 Ω typical

Lead resistance zeroing: Up to 9,99 Ω

Buzzer: Operates continuously at less than 5 Ω

Resistance

Measuring Range: 0,01 kΩ to 9,99 MΩ
(0 to 100 MΩ on analogue scale) with Auto Ranging or Range Lock Facility.

Accuracy: ±3% ±2 digits

Open circuit voltage: 5 V ±1 V

Short circuit current: 25 μA ± 5 μA

Voltage

Measuring Range: ±1 V to ±500 V
(0 to 1000 V on analogue scale)

Accuracy: 0 to 500 V d.c. or a.c. (50/60 Hz)
±2% ±3 digit
0 to 500 V 400 Hz a.c.
± 5% ±3 digits

Millivolts

Measuring Range: ±0,1 mV to 1 ±999 mV
(0 to 1000 mV on analogue scale)

Accuracy: 10 mV to 1999 mV d.c. or a.c.
(50/60 Hz) ±2% ±3 digit
0,1mV to 10 mV d.c. or a.c.
(50/60 Hz) ±2% ±5 digits
10 mV to 1999 mV a.c.
(16-460 Hz) ±5% ±3 digit
0,1 mV to 10 mV a.c.
(16-460 Hz) ±5% ±5 digits

d.c. millivolts zeroing: Up to 9,9 mV

Transducer Compatibility

Virtually any mV output transducer may be connected to facilitate measurements of other parameters such as temperature, humidity etc. A unique transducer offset adjustment ensures is included.

Capacitance (BMM2580)

Measuring Range: 0,1 nF to 9,99 μF

Accuracy: ±3% ±0,2 nF ±2 digits

μF zeroing: Up to 10 nF

Power Supply

Battery Type: 6 x 1,5V Alkaline cells
IEC LR6 type

Battery Life: Typically 3000, 5 second 1 kV tests

Auto Shut Off

The BMM80 feature an auto shut off facility which turns the instrument off after approximately 5 minutes, (12 minutes on insulation ranges), to conserve battery life

Safety

The BMM80 complies with the latest international directives concerning safety and electromagnetic compatibility

The instruments meet the requirements for double insulation to IEC 61010-1 (1995), EN 61010-1 (1995) Safety Requirements for electrical equipment for measurement, control, and laboratory use, Category III**, 300 Volts phase to earth (ground) and 440 Volts phase to phase, without the need for separately fused test leads. If required, fused test leads are available as an optional accessory.

** Relates to the transient over-voltages likely to be met in fixed wiring installations.

Complies with the following parts of EN 61557, Electrical safety in low voltage systems up to 1000 V a.c. and 1500 V d.c. -

Equipment for testing, measuring or monitoring of protective measures:-

Part 1 - General requirements

Part 2 - Insulation resistance

Part 4 - Resistance of earth connection and equip-potential bonding

Part 10 - Combined Measuring Equipment

Fuse

500 mA (F) 500 V, 32 x 6mm Ceramic HBC 10 kA minimum.



BMM80
Premium Insulation Multimeters

Electromagnetic Compatibility

RF Susceptibility
The BMM 800 series comply with IEC 61326
RF Emission
The BMM 80 series comply with IEC 61326
FCC Part 15 Class B

Environmental Conditions

Operating range: -5 to +40°C
Operating humidity: 90% RH at 40°C max.
Storage temperature range: -25 to +65°C
Calibration Temperature: +20°C
Maximum altitude: 2000 m
Dust and water protection: IP54
Temperature coefficient: <0,1% per °C

Physical Specifications

Dimensions

Length: 220 mm (8.66 inches)
Depth: 110 mm (4.33 inches)
Height: 45 mm (1.77 inches)
Weight: 742 g (1.63 lbs)
(including batteries)

Cleaning

Wipe with a clean cloth dampened with soapy water or Isopropyl Alcohol (IPA).

ORDERING INFORMATION

Item (Qty)	Order Code
50/100/250/500/1000 V Insulation Multimeter	BMM80
Included Accessories	
User Guide	Depends on language
Test lead set	6220-437
Test-&-carry case	6420-123
Switched probe SP1	6220-606
Optional Accessories	
Fused lead set, FPK8	6111-218
Zip-up carrying case	6420-124
Test Record Cards (Pack of 20)	6111-216
MCC10 10A Current Clamp	6111-290
Printer Serial Lead	25955-026
Optional Software	
PowerSuite for Windows (Comprehensive Electrical Testing Software)	See supplier
NICEone (Certification software for producing NICEIC certificates)	6111-403
Publications	
'A Stitch in Time' (Video)	AVTM21-P8
Testing Electrical Installations (Book)	6231-605

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BMM80_DS_en_V10

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