SPECIFICATION

INSULATION RANGES

	BM400/2 BM402/2	BM401/2 BM404/2	BM403/2
Nominal test Voltage (d.c.):	500 V 1000 V	500 V	250 V, 500 V 1000 V

Measuring Range: 0,01MΩ to 999 MΩ on all ranges (0 to 10 GΩ on analogue scale)

Terminal Voltage (d.c.): +15% maximum on open circuit.

Short Circuit Current: < 2 mA

Test Current on Load: 1 mA at min. pass values of insulation specified in BS7671, HD384 and IEC 364, 2 mA max.

Accuracy (at 20 °C): ± 2%, ± 2 digits

CONTINUITY RANGES

Measuring Range: 0,01Ω to99,9 Ω (0 to 50 Ω on analogue scale)

Open Circuit Voltage: 5 V, ±1 V

Short Circuit Current: 205 mA, ± 5 mA

Accuracy (at 20 °C): 1Ω to 9,99 Ω: ± 2%, ± 2 digits
10Ω to 99,9 Ω: ± 5%

Zero Offset Adjust: 0Ω to9,99 Ω

Continuity Beeper: Operates at less than 5 Ω

RESISTANCE RANGE

(can be used for diode testing)

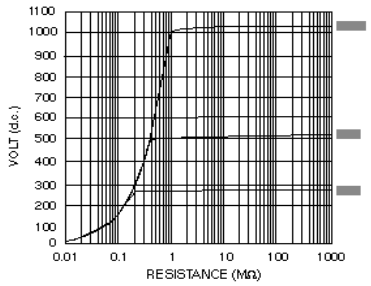
Measuring Range: 0,1kΩ to100 kΩ (0 to10 MΩ on analogue scale)

Open Circuit Voltage: 5 V, ± 1V

Short Circuit Current: 20 µA, ±5 µA

Accuracy (at 20 °C): ± 5% ± 2 digits

TYPICAL TERMINAL VOLTAGE CHARACTERISTICS



VOLTAGE RANGE

Analogue Scale	Measurement Scale	Accuracy(above 1 V)
0 to 500 V	0 to 450 V d.c. or a.c. (50/60 Hz)	± 1% ± 2 digits
	450 to 600 V d.c. or a.c.(50/60 Hz)	± 2% ± 2 digits
	0 to 450 V 400 Hz a.c.	± 5% ± 2 digits
1,0 to 50 V	1,0 to 50,0 V d.c. or a.c. (50/60 Hz)	± 2% ± 3 digits

SAFETY

The instruments meet the requirements for double insulation to IEC 1010-1 (1995) EN 61010-1 (1995) to Category III*, 300 Volts phase to earth, 440 Volts phase to phase, without the need for separately fused test leads. If required, fused test leads are available as an optional accessory. The ***BM402/2*** and ***BM404/2*** do not incorporate a voltage range and must **not** be intentionally connected to live circuits. *Relates to transient overvoltage likely to be found in fixed installation wiring.

FUSE	500 mA (F) 440 V, 32 x 6 mm Ceramic HBC 10 kA minimum.
E.M.C.	The instruments meet EN 50081-1 and EN 50082-1 (1992).

POWER SUPPLY

Battery Type:	6 x 1,5 V Alkaline cells IEC LR6 type **only**.
Battery Life:	Typically 3000, 5 second operations, at 1 kV.

ENVIRONMENTAL CONDITIONS

Altitude:	Up to 2000 m
Pollution degree:	2
Operating Range:	-20 to +40 °C
Operating Humidity:	90% R.H. at 40 °C max.
Storage Range:	-25 to +65 °C
Temperature Coefficient:	<0,1% per °C on all ranges

WEIGHT	625g
DIMENSIONS	220 mm x 92 mm x 55 mm
CLEANING	Wipe with a clean cloth dampened with soapy water or Isopropyl Alcohol (IPA).

ACCESSORIES

Supplied:	**Part Number**
User Guide	6172-189
Test lead set	6220-437
Zip-up carrying case	6420-090
Optional:	
Fixed prod	5210-350
Fused lead set, **FPK8**	6111-218
Test & carry case	6420-112
Download Base **DLB**	220-603
Switch Probe **SP1**	6220-606
Miniature Clip on A.C. Current Transformer **MCC10**	6111-290
Test Record Card (pack of 20)	6111-216
Publications	
'A Stitch in Time'	AVTM21-P8B

Note

Users of this equipment and or their employers are reminded that Health and Safety Legislation require them to carry out valid risk assessments of all electrical work so as to identify potential sources of electrical danger and risk of electrical injury such as from inadvertent short circuits. Where the assessments show that the risk is significant then the use of fused test leads constructed in accordance with the HSE guidance note GS38 'Electrical Test Equipment for use by Electricians' should be used.