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BM11 5 kV Analogue insulation tester



- Simplicity and ease of use
- User safety features
- Unique rugged casing
- Analogue display
- Wide range of test voltages

DESCRIPTION

The traditional BM11 instrument became the industrystandard 5 kV tester. It is battery-powered, housed in a rugged case and has a large, simple white-on-black scale.

The BM11 incorporates a guard terminal to allow surface leakage to be removed and pre-set standard test voltages at 500 V, 1000 V, 2500 V and 5000 V.

APPLICATIONS

The BM11 is designed for testing the insulation of high voltage electrical equipment and the wide voltage range also allows it to be applied to low voltage equipment.

Generators, motors, transformers, cables and switchgear all require effective maintenance and the BM11 gives valuable diagnostic information.

'Spot' Insulation tests that are the most widely used, check on the general condition of electrical insulation, called up in most standards covering equipment design, testing, installation and maintenance.

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FEATURES AND BENEFITS

- Choice of test voltages
- Direct reading display
- Unique rugged case
- Guard terminal
- Designed for user safety

Features

- Large direct reading analogue scale
- Guard terminal
- Rugged case design
- 123 mm scale length

Note: Not for sale in E.U.

SPECIFICATIONS

Test voltages (d.c.)	500, 1000, 2500, 5000 V
Accuracy (20°C)	±5% on open circuit
Insulation resistance range	100 k Ω to 100 G Ω ; at all test voltages
Basic accuracy	$\pm 1,5\%$ of arc length
Short circuit current	1 mA nominal, 2 mA max.
Voltage range	50 to 1000 V d.c. or a.c.
Accuracy (20 °C)	$\pm 5\% \pm 10 \text{ V}$
Display	Analogue
Interference rejection	2 mA a.c. (50/60 Hz) on 5 kV range
Capacitor discharge time	<1 s per μ F to discharge from 5000 V to 50 V
Leakage current measurement	None
Capacitance measurement	None
Timer	None
Temperature range	Operating -15 to +55 °C (5 to +131 °F) Storage -40 to +65 °C (-40 to +149 °F)
Temperature coefficient	< 0,04% of arc length per °C (0.2%/°F) 0,2% per °C (0.1%/°F) for test currents >100 nA
Humidity range	90% RH @ 40 °C max. (104 °F)
Safety	IEC348

Power Supply

NiCd battery pack of 2 Ah capacity.				
Battery life:	typically 8 hrs continuous (varying between 2 h and 20 h depending upon load conditions).			
Battery charging:	built-in-charging unit, operating from 100 V to 250 V a.c. supply, 50 Hz or 60 Hz, charging time: 16 hrs.			
Low battery				
voltage indication:	small oscillations of the pointer occur with an approx. 80% exhausted battery, large pointer oscillations occur when the battery must be recharged.			
Dimensions				
	344 mm x 245 mm x 158 mm			
	(13½ in x 95% in approx.)			
Weight	4,8 kg (10½ lb approx.)			

CB101 CALIBRATION BOX

Nominal resistance

values: $10 \text{ M}\Omega$, $100 \text{ M}\Omega$, $1 \text{ G}\Omega$ and $10 \text{ G}\Omega$.

High quality resistors, rated to high voltage, suitable for calibration checks on insulation testers up to 5 kV d.c. Voltage coefficient is less than 1 part per million per volt.

A calibration certificate is provided with each CB101 showing the actual value of each resistance check-point.

CB101 SPECIFICATION

Calibration accuracy	1%
Voltage coefficient	1 ppm/V
Calibration temperature	20°C
Temperature coefficient	250 ppm/°C (139 ppm/°F)
Shelf stability, typically	0,5% per year

Environmental specification Operating temperature +5 to +40 °C (41 to 104 °F)

Operating temperature	+5 to $+40$ C (41 to 104 F)
Storage temperature	-20 °C to +60 °C (-4 °F to 140 °F)
Operating humidity	60% RH max.

Safety

Meets the requirements of EC1010-1 (1992), EN61010 (1993) to installation category III, 300 V, phase to phase

EMC

In accordance with IEC61326 including Amendment No. 1.

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ORDERING INFORMATION			
ltem (Qty)	Order No.		
Analogue Insulation Tester	BM11		
Included Accessories			
3 x 3m HV leads	6220-317		
Mains Supply lead for charging	25424-860		
Accessory pouch, leather	6430-193		
User Guide	6172-922		
Optional Accessories			
High Voltage test lead, 8 m long	6220-318		
CB101 Calibration box	6311-077		
Test record cards (pack of 20)	6111-217		
Publications			
'A Stitch in Time"	AVTM21-P8B		
'The Lowdown on High Voltage d.c. Testing'	AVTM22P-1		
Optional Accessories			
Test leads with fused prods, FPK4 —			
unsuitable for continuity measurements: comply			
with Health and Safety Executive Guidance Note			
GS 38 (1 set)	6111-287		

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