

MTB7671/2

Instrument test box



- Tests the full range of a testers capability
- Does not trip RCD protected circuits
- Tests to the regulations BS7671, BS EN 61557 and IEE On-Site Guide
- Checks insulation, continuity, loop, PFC, RCD and voltage measurement functions
- Confirms testers continued performance between calibrations
- Colour coded test functions

DESCRIPTION

The MTB7671/2 is designed to provide confirmation that your testers continue to operate properly, and maintain their accuracy and consistency between calibrations.

The NICEIC, ELECSA and Corgi among others now request evidence that your testers comply with this.

The MTB7671/2 checks not only the basic functions of the testers, but also that the correct test current or voltage is being used during the test.

For example, a continuity test should not just give a result in ohms, but the short circuit test current should be greater than 200 mA and the open circuit voltage should be within the limits of 4-24 V.

The PASS/FAIL values are selected to ensure that where there is a published specification for a test parameter then the MTB7671/2 will test your tester to ensure that it meets these specifications using a series of simple Pass/Fail indications.

Additional test values are provided to ensure that the testers maintain consistent values across the range of their operating specifications.

Insulation testers

The MTB7671/2 provides confirmation that a tester outputs the correct voltage and current (>1 mA) for each of the test voltage points. (250 V, 500 V and 1 kV).

Additional test values are provided at 9 M Ω and 90 M Ω .

Continuity testers

The MTB7671/2 provides confirmation that the tester outputs the correct open circuit voltage (4-24 V) and short circuit current (>200 mA). Test values at 0.5 Ω and 5 Ω are provided for resistance measurements.

Loop testers

The MTB7671/2 provides a direct loop measurement from the outlet socket which can be measured either with a Trip or No Trip test as the MTB7671/2 is designed to not trip RCD protected circuits. In addition it has loop plus 10 Ω and loop plus 180 Ω for testing against TT measurements. It also has a switch position for PFC tests which is linked to the loop plus 10 Ω measurement point for consistency of measurements.

RCD testers

The MTB7671/2 provides three RCD values (10 mA, 30 mA and 100 mA). For each value the five standard tests (1/2I, I @ 0°, I @ 180°, 5I @ 0° and 5I @ 180°) can be performed.

The MTB7671/2 has two LED indicators for RCD testing, one to show the RCD has tripped and one to show that a 5I test is being performed.

Voltage measurement

The MTB7671/2 also has 230 V output terminals to provide a quick check of any voltage measurement ranges on the instrument.

RCD Protection

The test box can be used on either standard or RCD protected supplies without the risk of tripping the supply. The test box is itself protected by a 30 mA RCD to ensure any faulty testers cannot cause an unsafe situation.

Safety

The MTB7671/2 has been designed to meet the safety requirements of IEC61010-1.

EMC

In accordance with IEC 61326-1.

Environmental

Operating range: 0 °C to 40 °C

Operating humidity: 85% at 40 °C

Storage temperature: -25 °C to 65 °C

Mains Supply 230 V 50 Hz 10 VA

Fuses

RCD plug 7 A (BS1362)

MTB7671/2 500 mA F 250 V IEC60127

Physical

Dimensions 320 x 280 x 100 mm

Weight 2.2 kg

	BS7671 & BS EN61557 tester requirements	MTB7671 test parameters	Megger calibration points
Continuity short Circuit test Current	>200 mA	>200 mA Pass/Fail indication (Threshold limits $\pm 2\%$)	>200 mA
Continuity test Voltage range	4 V - 24 V	4 V - 24 V Pass/Fail indication (Threshold limits $\pm 2\%$)	
Continuity resistance		0.5 Ω $\pm 3\%$ 5.0 Ω $\pm 3\%$	0.5 Ω 5.0 Ω
Insulation test current	1 mA	1 mA Pass/Fail indication (Threshold limits $\pm 2\%$)	
Insulation test voltages	250 V +25% max 500 V +25% max 1 kV +25% max	250 V +25% 500 V +25% 1 kV +25% Pass/Fail indication (Threshold limits $\pm 2\%$)	
Insulation test resistances	0.25 M Ω min 0.5 M Ω min 1 M Ω min	0.25 M Ω $\pm 3\%$ 0.5 M Ω $\pm 3\%$ 1 M Ω $\pm 3\%$	0.25 M Ω 0.5 M Ω 1.0 M Ω
Insulation test resistances		9 M Ω $\pm 3\%$ 90 M Ω $\pm 3\%$	90 M Ω
Loop		Local mains impedance	
Loop + 10 Ω		Loop + 10 Ω ($\pm 5\%$)	10 Ω
Loop + 180 Ω (IEE On-site guide 10.3.5 Earth electrode resistance)		Loop + 180 Ω ($\pm 5\%$)	180 Ω
RCD currents (I)		10 mA, 30 mA & 100 mA	
RCD No trip (1/2 I)	No trip	>1999 ms	
RCD (I)	<200 ms	40 ms @ 0 $^\circ$ 50 ms @ 180 $^\circ$	
RCD (5 x I)	<40 ms	10 ms @ 0 $^\circ$ 20 ms @ 180 $^\circ$	

ORDERING INFORMATION

Item (Qty)	Order No.
MTB7671/2 Check Box	1002-224
Included accessories	
CalCheck record card set	2002-524
Test lead set - MTB7671	2002-616
Optional accessories	
SIA10 Socket interface adaptor	
UK to 3 x 4 mm	6220-810
Schuko power adaptor	1002-221
Australian power adaptor	1002-222
Israeli power adaptor	1002-223

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Registered to ISO 9001:2008 Cert. no. Q 09295
Registered to ISO 14001:2004 Cert. no. EMS 61597
MTB7671_2_DS_en_V01

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Kalibratielaboratorium

Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



Kijk voor een overzicht van al onze diensten op euro-index.nl/diensten



Mobiele Service

Naast de vaste kalibratielaboratoria in Capelle aan den IJssel en Zaventem beschikken wij ook over laboratoria op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

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KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app).

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- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

EURO-INDEX Academy

- Trainingen (individueel en klassikaal)
- Cursussen en workshops
- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Mobiele Service

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