

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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OTHER TECHNICAL SALES OFFICES
Valley Forge USA, College Station USA, Sydney
AUSTRALIA, Täby SWEDEN, Ontario CANADA,
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SWITZERLAND, Dubai UAE, Mumbai INDIA,
Durban SOUTH AFRICA, Chonburi THAILAND,
Tsuen Wan HONG KONG

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Registered to ISO 14001:2004 Cert. no. EMS 61597
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EURO-INDEX est un fabricant, importateur et distributeur de diverses marques A dans le domaine des instruments de test et de mesure. Nous fournissons également une large gamme de services pour optimiser l'utilisation de ces instruments dans vos activités. Ces services comprennent naturellement l'entretien, la réparation et l'étalonnage des instruments, mais nous proposons aussi une assistance sous forme de formation via notre EURO-INDEX Academy et la location d'instruments.

Centre de Service Agréé

EURO-INDEX est un Centre de Service Agréé pour toutes les marques représentées. Cela signifie que vos instruments sont pris en charge par des techniciens formés par le fabricant et disposant des outils et logiciels adéquats. Seules des pièces d'origine sont utilisées et la garantie de votre instrument, ainsi que les certifications (ATEX, EN50379, etc.) restent intactes.

Laboratoire de maintenance et de calibrage

Le laboratoire des Pays-Bas est accrédité RvA selon la norme EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le champ d'application associé au numéro d'accréditation K105. Les certificats de calibrage RvA sont acceptés à l'international et équivalents à ceux de BELAC.



Service Mobile

Outre les laboratoires d'étalonnage fixes de Zaventem et de Capelle aan den IJssel, nous disposons également d'un laboratoire itinérant appelé "Service mobile". Nos services peuvent venir vers vous, en offrant une qualité équivalente.

MQS®

MQS® est une formule d'entretien exclusive comportant un entretien et un calibrage périodiques de vos instruments de mesure à un coût fixe et faible. Via un portail Web gratuit (monmq.be), vous avez toujours accès à vos certificats de calibrage.

Location d'instruments de mesure

- Vaste assortiment
- Précision démontrable par le certificat d'étalonnage actuel
- Conseils avisés
- Les instruments sont livrés avec leurs accessoires

EURO-INDEX Academy

- Formations et séminaires
- Vidéos de démonstration et d'instruction
- Notes d'application



Comptoir de service



Entretien, réparation et calibrage



Formations et séminaires



Service Mobile

Sous réserve de modifications EURO-INDEX® FR 23001



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