Testboy 1 LCD Socket Tester Instruction Manual

Contents

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General safety notes

WARNING
Unauthorized changes or modifications of the instrument are forbidden – such changes put the approval (CE) and safety of the instrument at risk. In order to operate the instrument safely, you must always observe the safety instructions, warnings and the information in the “Proper and Intended Use” Chapter.
WARNING
Please observe the following information before using the instrument:

- Do not operate the instrument in the proximity of electrical welders, induction heaters and other electromagnetic fields.
- After an abrupt temperature fluctuation, the instrument should be allowed to adjust to the new temperature for about 30 minutes before using it. This helps to stabilize the IR sensor.
- Do not expose the instrument to high temperatures for a long period of time.
- Avoid dusty and humid surroundings.
- Measurement instruments and their accessories are not toys. Children should never be allowed access to them!
- In industrial institutions, you must follow the accident prevention regulations for electrical facilities and equipment, as established by your employer’s liability insurance organization.

Please observe the following five safety rules:

1. Disconnect.
2. Ensure that the instrument cannot be turned back on again.
3. Ensure isolation from the main supply voltage (check that there is no voltage on both poles).
4. Earth and short-circuit.
5. Cover neighbouring parts that are under live electrical load.

Proper and intended use

This instrument is intended for use in applications described in the operation manual only. Any other usage is considered improper and non-approved us-age and can result in accidents or the destruction of the instrument. Any misuse will result in the expiry of all guarantee and warranty claims on the part of the operator against the manufacturer. Remove the batteries during longer periods of inactivity in order to avoid damaging the instrument. We assume no liability for damages to property or personal injury caused by improper handling or failure to observe safety instructions. Any warranty claim expires in such cases. An exclamation mark in a triangle indicates safety notices in the operating instructions. Read the instructions completely before beginning the initial commissioning. This instrument is CE approved and thus fulfils the required guidelines.

Disclaimer and exclusion of liability

The warranty claim expires in cases of damages caused by failure to observe the instruction! We assume no liability for any resulting damage!
Testboy is not responsible for damage resulting from:

- failure to observe the instructions,
- changes in the product that have not been approved by

Testboy,

- the use of replacement parts that have not been approved or manufactured by Testboy,
- the use of alcohol, drugs or medication.
- Correctness of the operating instructions

These operating instructions have been created with due careand attention. No claim is made nor guarantee given that the data, illustrations and drawings are complete or correct. Allrights are reserved in regards to changes, print failures and errors.

Disposal
For Testboy customers: Purchasing our product gives you the opportunity to return the instrument to collection points for waste electrical equipment at the end of its lifespan. The EU Directive 2002/96/EC (WEEE) regulates the return and recycling of waste electrical and electronics equipment. As of 13/08/2005, manufacturers of electrical and electronics equipment are obliged to take back and recycle any electrical devices sold after this date for no charge. After that date, electrical de-vices must not be disposed of through the “normal” waste disposal channels. Electrical devices must be disposed of and recycled separately. All devices that fall under this directive must feature this logo.

Five year warranty
Testboy instruments are subject to strict quality control standards. The instrument is covered by a warranty for a period of five years against malfunctions during the course of your daily work (valid only with invoice). We will repair production or material defects free of charge upon return if these have notbeen caused by misuse or abuse and if the instrument has not been opened. Damage resulting from a fall or improper handling is excluded from the warranty.

Please contact

- Testboy GmbH
- **Tel:** 0049 (0)4441 / 89112-10
- Elektrotechnische Spezialfabrik
- **Fax:** 0049 (0)4441 / 84536

- Beim Alten Flugplatz 3
- D-49377 Vechta
- **www.testboy.de**.
- Germany
- **info@testboy.de**.

Certificate of quality
All aspects of the activities carried out by Testboy GmbH relating to quality during the manufacturing process are monitored permanently within the framework of a Quality Management System. Furthermore, Testboy GmbH confirms that the testing equipment and instruments used during the calibration process are subject to a permanent inspection process.
Declaration of Conformity
The product conforms to the present directives. For more detailed information, go to **www.testboy.de**.

Operation

Thank you for choosing a Testavit® Schuki® 1 LCD. Power socket tester with FI/RCD test (30 mA).

Power socket test

- With the Testavit® Schuki® 1 LCD, sockets can be set to correct Connection* or checked for wiring errors.
- The connection status is displayed with the LEDs and can be can be determined quickly and clearly from the printed table.
- To check whether an impermissibly high touch voltage on the protective earth connection is present, the finger contact must be touched become. If the LC display lights up, there is an error. By pressing the “FI/RCD test” button (< 3 seconds), a Residual current device (30 mA / 230 V AC) on function being checked.
- In many international standards it is specified that the phase to a socket on the right connector (seen from the front) must be present.
- In Germany there is no clear regulation on this, since the Schuko plug is not protected against polarity reversal.
- To get a correct reading and to do the FI/RCD test to be carried out, the phase must be on the right. Therefore it has to
- Device possibly when checking a Schuko socket (depending on wiring) rotated by 180°.

Operating and display elements

1. Status-LEDs
2. LC-Display
3. Fingerkontakt
4. Taster

Status-LEDs

⊗ ● ●	OK	OK, Phase on the right side
● ● ⊗	L<>N	Phase on the left side (OK)
⊗ ⊗ ⊗	~~L~~	Phase missing
⊗ ⊗ ●	~~N~~	Neutral missing, Phase on the right side
⊗ ● ⊗	~~PE~~	Ground missing
● ⊗ ●	L<>PE	Phase/Ground inverted
● ● ●	L<>PE&~~PE~~	Phase/Ground inverted and Ground missing
	L<>N&~~N~~	Phase/Neutral inverted and Neutral missing

⊗ LED off; ● LED on

LC-Display

	Warning!	Voltage at PE

When touching the finger contact must refer to the earth potential must be respected. This means that there is incorrect indication of the LC display can occur when the person carrying out the work does not have sufficient contact with the has earth potential (e.g. wooden ladder, thick rubber soles, etc.).

Operation

- If the tester indicates a fault condition in the wiring under test,always investigate the wiring or have the wiring investigated by a competent person.
- Do not contact accross two phases of a three phase supply.
- The tester will not correctly test circuits using isolation transformer.
- Before testing, disconnect any loads from the circuits of all socket outlet in same distribution board as possible with thesocket under test. Some loads connected may lead to measuring error.
- Check the RCD trigger function in an known correctly circuit with RCD before used.
- Use caution with voltages above 30 V ac as a shock hazard may exist.

FOR USE BY COMPETENT PERSONS
Anyone using this instrument should be knowledgeable and trained about the risks involved with measuring voltage, especially in an industrial setting, and the importance of taking safety precautions and of testing the instrument before and after using it to ensure that it is in good working condition.

Definition of measurement categories

- **Measurement category II:**
  - Measurement category II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage mains installation. Typical short-circuit current is < 10kA.
- **Measurement category III:**
  - Measurement category III is applicable to test and measuring circuits connected to the distribution part of the building's lowvoltage mains installation. Typical short-circuit current is < 50kA.
- **Measurement category IV:**
  - Measurement category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage mains installation. Typical short-circuit current is >> 50kA.
  - Read the instruction before use. If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
  - All parts of the device and its accessories are not allowed to be changed or replaced, other than authorized by the manufacturer or his agent.

For cleaning the unit, use a dry cloth.

Technical data

Voltage range	230 V AC, 50 Hz
Power supply	by test object, max. 3 mA
FI/RCD Test	30 mA at 230 V AC
Degree of protection	IP 40
Over-voltage category	CAT II 300 V
Temperature range	0° ~ +50°C
Testing standard	IEC/EN 61010-1 (DIN VDE 0411)

CONTACT

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Documents / Resources

	Testboy 1 LCD Socket Tester [pdf] Instruction Manual 1 LCD Socket Tester, 1 LCD, Socket Tester, Tester