

Socket Tester

USERS MANUAL

This Socket Tester can be used to determine whether socket wiring is correct or incorrect. It is equipped with an additional RCD tester for testing the operation of RCD whose rating is not more than 30mA. In conjunction with the coding table provided, the five combined indicators indicate the true status of the wiring condition. A clear indication of a PE-error will be shown on the LCD if dangerous contact voltage is present at PE (ground).

FEATURES

1. Provides a true ground error indication through the LCD.
2. Provides quick recognition of dangerous voltage being present at the protective earth.
3. The use of three neon indicators provides rapid detection of correct /incorrect wiring.
4. Provides fast and effective RCD test function.

WARNING

1. In order to avoid electrical shock, use proper safety measures when working with voltages above 32V ac rms, 42V ac peak or 60V dc. These voltages can pose a shock hazard.
2. If a plug adapter has to be used to test a socket or a lead connection, ensure that this adapter is in a perfect condition and that the protective conductor connection of the adapter is continuously connected. Using plug adapter without continuous protective conductor leads to faulty test results.
3. Before use, check that the instrument is in perfect working order, for example, verify the instrument's operation with a known voltage source.
4. For socket wiring test, a clear and safe statement concerning the test result can only be given in connection with the touching of the contact electrode.
5. This instrument can not detect N/PE reverse.
6. Result of the instrument's RCD test is only for reference, RCD test result is not guaranteed.
7. The indicators may at times light up weakly depending on the distributed capacitance of the electrical installation.
8. Always keep the instrument dry.
9. Except the contact electrode, don't touch any other conductor with hand or skin to avoid electric shock.
10. The instrument must only be used under the conditions and for the purposes for which it has been designed.

INTRODUCTION

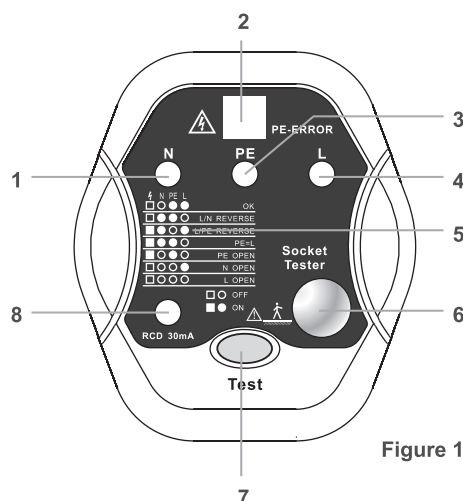


Figure 1

1. Neutral (N)
2. LCD for PE-error indication
3. Ground conductor (PE)
4. Phase (L)
5. Coding table
6. Contact electrode
7. Button
8. "RCD 30mA" indicator

OPERATION INSTRUCTION

Testing Socket Wiring

1. Plug instrument into the socket to be tested.
2. Touch the contact electrode with one finger and read the indicators. Explanation regarding the test result is described in **Table**.

If the LCD display shows the symbol " Δ " when you touch the contact electrode, a dangerous contact voltage is present at the PE-conductor and the complete electrical installation must be checked by a qualified electrician.

Table

Symbol " Δ " on the LCD	INDICATORS			Test Result	"RCD 30mA" Lamp
	"N" Lamp	"PE" Lamp	"L" Lamp		
×	×	✓	✓	Correct socket wiring	✓
×	✓	✓	×	L / N reverse	×
✓	✓	×	✓	L / PE reverse	✓
✓	✓	✓	×	PE = L (Protective conductor equals live wire.)	×
✓	×	✓	×	PE open	×
×	×	×	✓	N open	✓
×	×	×	×	L open	×

Note: "✓" means " Turn On ";
"×" means " Turn Off ".

The coding table on the instrument is provided for easy use and is similar to the table mentioned above, the difference is that the "RCD 30mA" lamp indications are not listed in the coding table.

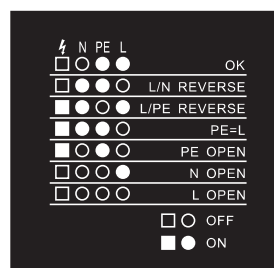


Figure 2

Coding Table

In Coding Table:

" Δ " stands for the LCD's indication (" Δ ").
"N", "PE" and "L" stand for the three neon indicators respectively (see Figure 1)

Example :

If only the L lamp lights (PE and N lamps don't light, LCD doesn't display " Δ "), the neutral line is open.

RCD Test

Warning !

This instrument can not be used as a replacement of a real RCD tester.

1. Plug the instrument into the socket which is under the monitoring of the RCD to be tested. If the "RCD 30mA" indicator doesn't light, don't proceed to perform the RCD test.
2. Push the button to start RCD test. The RCD must trip after the test. If the RCD does not trip, the RCD or the entire electrical installation must be checked by a professional electrician.

TECHNICAL DATA

Nominal voltage:

- Germany Socket Tester : 230V, at 50Hz
- U.K. Socket Tester : 240V, at 50Hz
- USA Socket Tester : 120V, at 60Hz

Measurement category: CAT III, 300V

RCD-test time: 60 ~ 300ms

Contact voltage threshold: < 35V AC against ground depending on coupling to earth

RCD test current: 30mA ±15%

Working Temperature: 0°C ~ 40°C,
relative humidity: <80%

Size: Germany Socket Tester : 76X67X69mm

U.K. Socket Tester : 76X67X74mm

USA Socket Tester : 76X67X69mm

Weight: Germany Socket Tester : about 76g

U.K. Socket Tester : about 82g

USA Socket Tester : about 73g

NOTE

1. This manual is subject to change without notice.
2. Our company will not take the other responsibilities for any loss.
3. The content of this manual can not be used as the reason to use the tester for any special applications.

DISPOSAL OF THIS ARTICLE

Dear Customer,
If you at some point intend to dispose of this article, then please keep in mind that many of its components consist of valuable materials, which can be recycled. Please do not discharge it in the garbage bin, but check with your local council for recycling facilities in your area.

