

**Megger**<sup>®</sup>



# **MST210**

## **Socket tester**

## User Guide

The Megger MST210 Socket Tester is designed to provide quick and easy indication of wiring errors which may be present at a socket outlet. Using simple green and red LED's, correct wiring can be verified with no need to isolate the supply or disassemble the socket.

Simply plug the tester into the socket. If the wiring is correct, two green LED's will illuminate. If either green LED does not light or the red LED comes on, there is a wiring fault. By referring to the table below, the combination of LED's shown will indicate the wiring fault present. Technical advice may be obtained from Megger Product Support on +44 (0) 1304 502102.

## Safety Warnings

**NOTES:** The MST210 cannot identify a Neutral to Earth reversal. The Megger MST210 Socket Tester does not eliminate the need for full electrical test of circuits as specified by BS7671, and is supplementary to it.

The Megger MST210 Socket Tester is intended for initial diagnosis of simple wiring faults, and any problem found or suspected must be referred to a suitably qualified electrician for repair.

Observe all of the safety information provided on the product and in this User Guide

## WEEE Directive

The crossed out wheeled bin symbol on the instrument and on the batteries is a reminder not to dispose of them with general waste at the end of their life.

Megger is registered in the UK as a Producer of Electrical and Electronic equipment.

The registration no is; WEE/DJ2235XR.

Users of Megger products in the UK may dispose of them at the end their useful life by contacting B2B Compliance at [www.b2bcompliance.org.uk](http://www.b2bcompliance.org.uk) or by telephone on 01691 676124. Users of Megger products in other parts of the EU should contact their local Megger company or distributor.

CATIV - Measurement category IV: Equipment connected between the origin of the low-voltage mains supply outside the building and the consumer unit.

CATIII - Measurement category III: Equipment connected between the consumer unit and the electrical outlets.

CATII - Measurement category II: Equipment connected between the electrical outlets and the user's equipment.

## Warning – Electric Shock Hazard

Contact with live circuits can result in severe injury or death. Before use check the tester and pins for any sign of damage. **Do not** use if the instrument is damaged or broken in any way.

**Do not** use in damp or wet conditions

This unit is not designed to be used continuously for more than 5 minutes. Do not leave plugged in to a live socket for extended periods.

**Do not** cover vent slots

Suitable for use on 230 V ac 13A BS1363 socket outlets only. Do not attempt to adapt it for any other use.

This product is maintenance free and contains no user-serviceable components.

**Do not** attempt to disassemble.

## Instructions for Use

1. Verify the operation of the MST210 by plugging into a known good 13A socket before use.
2. Plug the tester into the socket to be tested and switch on.
3. Check the indication displayed by the LED's against the table for diagnosis of the wiring status.

## Specifications

|                              |                          |
|------------------------------|--------------------------|
| <b>Indicators</b>            | Single colour bright LED |
| <b>Supply Rating</b>         | 230V 50Hz                |
| <b>Current Draw</b>          | 3mA max                  |
| <b>Operating Temperature</b> | 0 to 40°C                |
| <b>Humidity</b>              | < 95% non-condensing     |
| <b>Size</b>                  | 69mm x 67mm x 32mm       |
| <b>Weight</b>                | 80g                      |

## Cleaning instructions:

Wipe clean with a dry cloth. Do not use water, chemicals or detergents of any kind. Suitable for sale within the EU  
Megger Limited, Archcliffe Road, Dover, Kent, CT17 9EN, United Kingdom.

## MST210 Fault Combination Chart

| Plug Pins |   |   | Fault                                                                                      | LED Combination |             |         |
|-----------|---|---|--------------------------------------------------------------------------------------------|-----------------|-------------|---------|
| N         | E | L |                                                                                            | Green LED 1     | Green LED 2 | Red LED |
| N         | E | L | Correct Polarity                                                                           | ON              | ON          |         |
| N         |   | L | Earth missing                                                                              | ON              |             |         |
| N         | L | E | Earth pin connected to Live; Live pin connected to Earth                                   |                 | ON          | ON      |
|           | L | E | Earth pin connected to Live; Live pin connected to Earth; missing Neutral                  |                 | ON          |         |
|           | L | N | Earth pin connected to Live; Live pin connected to Neutral; missing Earth                  |                 | ON          |         |
| N         | L |   | Earth pin connected to Live; missing Earth                                                 | ON              | ON          | ON      |
|           | N | L | Earth pin connected to Neutral; missing Earth                                              |                 | ON          |         |
|           | E | L | Neutral missing                                                                            |                 | ON          |         |
| E         | L | N | Neutral pin connected to Earth; Earth pin connected to Live; Live pin connected to Neutral |                 | ON          | ON      |

|   |   |   |                                                                                            |    |    |    |
|---|---|---|--------------------------------------------------------------------------------------------|----|----|----|
| E | L |   | Neutral pin connected to Earth; Earth pin connected to Live; missing Neutral               | ON | ON | ON |
| E |   | L | Neutral pin connected to Earth; missing Neutral                                            | ON |    |    |
| L | N | E | Neutral pin connected to Live; Earth pin connected to Neutral; Live pin connected to Earth | ON |    | ON |
| L | N |   | Neutral pin connected to Live; Earth pin connected to Neutral; missing Earth               | ON | ON | ON |
| L |   | E | Neutral pin connected to Live; Live pin connected to Earth; missing Neutral                | ON |    |    |
| L | E | N | Neutral pin connected to Live; Live pin connected to Neutral                               | ON |    | ON |
| L |   | N | Neutral pin connected to Live; Live pin connected to Neutral; missing Earth                | ON |    |    |
| L | E |   | Neutral pin connected to Live; missing Neutral                                             | ON | ON | ON |

# Megger<sup>®</sup>

- Tests 13 A sockets with no disassembly
- Easy to use
- Instant error reporting
- Simple fault diagnosis
- Identifies 17 wiring fault conditions
- Rugged and reliable



MST210\_UG\_en\_V03