

R5300

REED INSTRUMENTS

Continuity Tester



Instruction Manual

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Introduction

Thank you for purchasing your REED R5300 Continuity Tester. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

Safety

- Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.
- Do not use the tester on any live wire. The tester can only be used on non-energized wires or cable.
- Before use, verify the instrument's operation by measuring known wires by using both local and remote continuity tests.
- Do not use the tester if it operates abnormally.
- Adhere to local and national safety regulations and follow normal safety precautions when working with electrical circuits.
- To avoid electric shock, do not touch conductors which contain dangerous voltage.

Features

- Local and remote continuity tester
- Lightweight design, connect alligator clips and the instrument suspends from wire/cable
- Visual (flashing bi-color LEDs) and audible (pulsating beeper) indicators
- Probe flashes green or red to indicate polarity
- Remote probe allows for one person operation
- Capable of sending signal on cable/wire runs up to 10,000' (3000m)
- Includes battery

Included

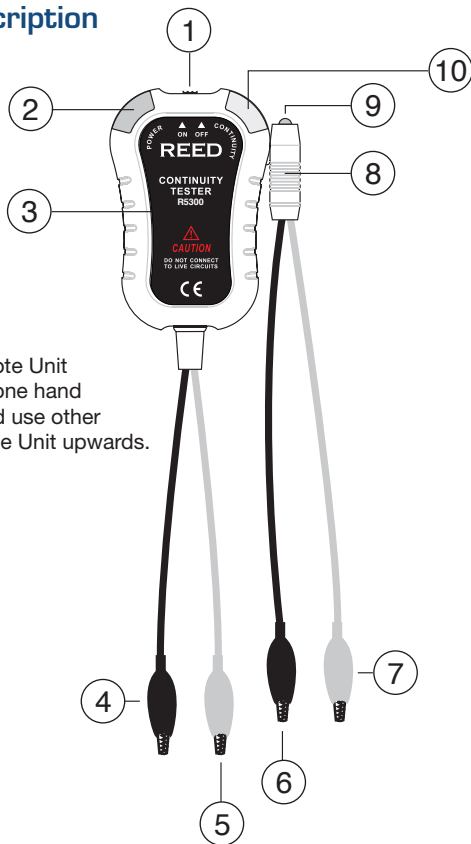
- Continuity Tester
- Remote Probe
- Battery

Specifications

Wire Verification Distance:	10,000' (3000m)
Max Test Current:	30mA
Max Test Voltage:	9V
Minimum Wire Size:	26 gauge
Power Supply:	9V Battery
Product Certifications:	CE
Visual Indicator:	Yes (Green and Red LEDs)
Audible Indicator:	Yes (Pulsating Beeper, approx. 85dB)
Fuse Protection:	0.5A/250V
Continuity Confirmation:	Equal to or less than 2.0k Ω
Operating Temperature:	14 to 113°F (-10 to 45°C)
Operating Humidity:	0 to 85%
Storage Temperature:	14 to 122°F (-10 to 50°C)
Dimensions:	4.5 x 3 x 1.1" (115 x 75 x 29mm)
Weight:	3.9oz (111g)

Instrument Description

1. Power Switch
2. Power LED
3. Main Unit
4. Black Clip
5. Red Clip
6. Black Clip
7. Red Clip
8. Remote Unit
9. Bi-Color LED
10. Continuity LED



Tip: To remove the Remote Unit from the Main Unit, use one hand to hold the Main Unit and use other hand to move the Remote Unit upwards.

Operating Instructions

Remote Continuity Test

Remote continuity testing requires both the Main Unit and Remote Unit. This test is mainly used for verification of continuity for cable/wires, or identification of cable/wires. Ideally used for testing cable TV, electrical cables, and telephone/speaker wiring in multi-room or multi-floor installations. The remote continuity test mode can be used to check continuity and identify two, three or more cables/wires by applying simple logic and testing strategy.

1. Turn on the Main Unit and the power LED light will turn green. If LED light does not turn on, replace the battery.
2. Refer to Figure 1, attach the red and black clips of the Main Unit to one end of cable/wires under test, then go to the other end of the cable/wires and connect them to the test leads of the Remote Unit.
3. If continuity exists, the bi-color LED of the Remote Unit will flash either green or red depending on the Remote Unit leads orientation. Meanwhile the Main Unit will beep and the continuity LED will flash red.
4. If the red clip of the Main Unit is connected to wire under test to the red clip of the Remote Unit and the black clip of the Main Unit is connected through wire under test to the black clip of the Remote Unit, then the bi-color LED flashes green indicating correct connection orientation.

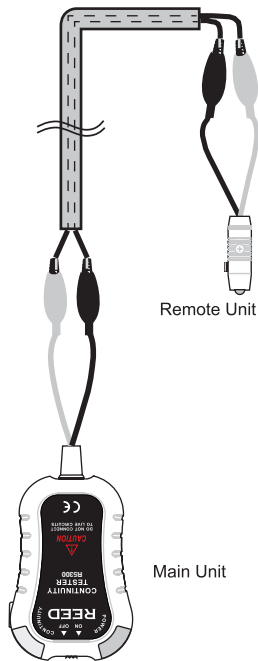


Figure 1

continued...

5. If the bi-color LED flashes red, this indicates the Remote Unit leads are not correctly connected. Reverse the Remote Unit leads and the bi-color LED will flash green.
6. Once the bi-color LED flashes green, the connections are correct.

Local Continuity Test

Using only the Main Unit you can test in-wall wiring at different locations in the same room. Other applications include; test fuses, bulbs, relay contacts, switches, diodes and circuit breakers, etc.

1. Turn on the Main Unit, the power LED lights green. If the power LED does not light, replace battery.
2. To check same room wiring runs, attach the red and black clips of the Main Unit to two wires on one end of the multi-wire cable under test and let the Main Unit hang on wires.
3. Go to other end of same cable and momentarily connect two wires of the cable together.
4. When continuity is found, the Main Unit will beep and the continuity LED will flash red.
5. To test other devices, connect the Main Unit's leads to device terminals in any* lead orientation (red or black). If device has internal electrical connection, the Main Unit will beep and the continuity LED will flash red indicating continuity.

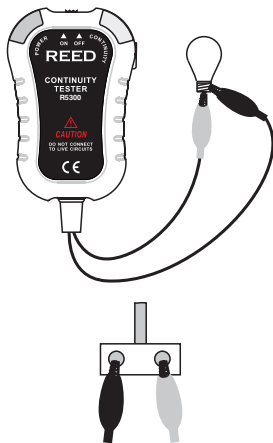


Figure 2

Note: When you test a diode, the Main Unit's red lead is positive and the Main Unit will indicate continuity when the red lead is connected to the anode of the diode and the black lead is connected to the cathode of the diode. If the connections are reversed and the diode is good, the Main Unit will not indicate continuity.

Battery Replacement

1. Before removing the battery, turn off the instrument and disconnect it from all cables or circuits under test.
2. Unscrew the battery cover and remove.
3. Insert a new 9V battery.
4. Secure the battery cover back into place and tighten the screw.

Note: To avoid damage, do not pull battery connector cable with force when replacing battery.

Applications

- Identifying lengthy wiring and cable in different rooms
- Home audio system installation
- Alarm installations
- HVAC/R system installations
- Automation and control systems
- Continuity testing of fuses, switches and relays

Accessories and Replacement Parts

- **CA-52A** Soft Carrying Case

Don't see your part listed here? For a complete list of all accessories and replacement parts visit your product page on www.REEDInstruments.com.

Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.

Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at info@reedinstruments.com to discuss the claim and determine the appropriate steps to process the warranty.

Product Disposal and Recycling



Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at info@reedinstruments.com.

Please visit www.REEDInstruments.com for the most up-to-date manuals, datasheets, product guides and software.

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REED INSTRUMENTS

TEST & MEASURE WITH CONFIDENCE



Access Our
Product Guide

