

Wavecom



TnT RCD

Portable Appliance Tester

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TnT RCD

Portable Appliance Tester

Overview

The TnTRCD is our best value offering for appliance testing and RCD testing in our latest generation of appliance testers. With a proven pedigree and a range of cutting edge features, the TnT RCD sets a new standard for portable appliance testers.

The TnT RCD boasts a comprehensive list of tests and analysis as required under the AS/NZS 3760:2010 Standards, with 10 amp (TnT RCD) and 20 amp (TnT RCD 20A) current load capacity versions available. Conducting tests is simple with one button test procedures and easy to read results.

With the flexibility of lithium ion battery power, the TnT RCD gives you greater versatility with your testing than ever before. The internal lithium ion

battery comes with safety focused design and more capacity to run the tester for up to 3000 sets of tests on a single charge.

The new TnT RCD design has isolation functionality built in, eliminating the need for bulky external isolation transformers, making RCD tests quicker and easier. The TnT RCD is designed for high power efficiency and faster data processing and also comes with AC/DC power operation.

Designed and manufactured in Australia to meet stringent testing requirements - some of the tightest in the world - TnT RCD now sets its own new standard of reliability and ruggedness, and now features a 36 month conditional warranty.

Features

- ◇ Class I, Class II, RCD, Leakage, Extension Lead tests
- ◇ True RCD Trip Time and Ramp Up Test
- ◇ Simplified one button test procedures
- ◇ High power Lithium Ion Battery - Conduct over 3000 sets of tests on a single charge
- ◇ Built In Isolation Transformer circuitry for portable RCD Testing
- ◇ Meter mode function
- ◇ 10 Amp and 20 Amp Load Current Capacity versions available
- ◇ Backlit display with easy to read results screen
- ◇ Conditional 36 month warranty
- ◇ Fully Australian designed & manufactured



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Specifications

Mains Supply Tests

Checks Polarity and continuity of mains supply by LED indicators (A-N, A-E, and N-E). (Flashing red LED indicates test fail)

Class I Tests- Earthed Appliance

Appliance Check: Ensures appliance is plugged in and turned on.
Earth Bond Test: 200mA test current. Pass level Less than 1.0 Ω . Measurement: 0.01 Ω to 10.0 Ω .
Insulation Test: 500VDC / 250VDC. Pass level Greater than 1M Ω . Measurement: 0.1 Ω to 10M Ω .
*See also Leakage Test

Class II Tests - Double Insulated Appliance

Appliance Check: Ensures appliance is plugged in and turned on.
Insulation Test: 500VDC / 250VDC. Pass level greater than 1M Ω . Measurement: 0.1 Ω to 10M Ω .
*See also Leakage Test

Extension Lead Tests

Earth Bond Test: 200mA test current. Pass level Less than 1 Ω . Measurement: 0.01 Ω to 10.0 Ω s
Insulation Test: 500VDC / 250VDC. Pass level Greater than 1M Ω . Measurement: 0.1 Ω to 10.0M Ω .
Continuity/Polarity Test: 250VAC check continuity and polarity of leads. Displays Pass/Fail

Power Measurement

Leakage Current: 0 to 30.0mA at 200 to 265V
Load Current: 0.0 to 10Amp (20Amp for TnT RCD 20A)
Voltage: 200 to 265VAC - Power Factor: 0.00 to 1.00
Apparent Power: 0 to 2400VA -Power 0 to 2400W

Meter Mode®

Green flashing LED denotes Meter Mode is engaged
Load Current: 0.0 to 10Amp
Voltage: 200 to 265VAC
Apparent Power: 0 to 2400VA
Power: 0 to 2400W

RCD Tests

Trip Current: 2 to 500mA in 1mA steps - User selectable.
Trip Time: 0 to 3,000ms at .001sec resolution.
Current Ramp Trip Test: 0 to 500mA in 1mA increments.

Leakage Tests

Leakage Current: 0 to 30.0mA at 200 to 265V
Earth Leakage Test: 240VAC Mains. Pass level 1, 2.5, 5.0 mA leakage test levels
Note 1: Pass level for CLASS 1 is 5 mA; pass level for CLASS 2 is 1 mA
Note 2: Leakage test may be performed if a standard CLASS 1 or CLASS 2 is not possible

Battery

4800 mAh, 44WH, Charge Time Around 4 Hours





TnT RCD

Portable Appliance Tester

Comparison

Model	TnT EL	TnT RCD	TnT RCD 20A	TnT Titan	TnT Titan 20A
Class I/Class II Testing	✓	✓	✓	✓	✓
Extension Leads/Socket Polarity Testing	✓	✓	✓	✓	✓
Leakage Current Testing	✓	✓	✓	✓	✓
500V/250V Insulation Testing	✓	✓	✓	✓	✓
Mains Supply Testing	✓	✓	✓	✓	✓
Power Measurement	✓	✓	✓	✓	✓
Meter Mode	✓	✓	✓	✓	✓
Internal Lithium Ion Battery	✓	✓	✓	✓	✓
RCD Testing		✓	✓	✓	✓
Inbuilt Isolation Transformer		✓	✓	✓	✓
3 Phase Earth and Leakage Test <i>(Requires Additional 3 Phase Adapter)</i>	✓	✓	✓	✓	✓
WinPATS App				✓	✓
Data Connectivity to PC/Printer/Tablet				✓	✓
Memory - 5000 Items to Unlimited Items <i>(Stored on Cloud Database with WinPATS App)</i>				✓	✓
Bluetooth Connectivity				✓	✓
Android Tablet				✓	✓
Integrated Thermal Transfer Tag Printer					
Advanced Bluetooth Tag Scanner					
10 Amp Operation	✓	✓	✓	✓	✓
20 Amp Operation			✓		✓



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Contents

- ◇ TnT RCD Portable Appliance Tester
- ◇ IEC Test Lead (500mm Orange)
- ◇ Earth Lead with Alligator Clips (1800mm Black)
- ◇ IEC Power Cable
- ◇ Wavecom 16A-10A Adapter (20A Units)
- ◇ USB A to USB B Interface Cable
- ◇ Wavecom Shoulder Strap
- ◇ 12 Month Calibration Certificate
- ◇ 36 Month Conditional Warranty
- ◇ User Manual
- ◇ Deluxe Carry Case

Optional Accessories

- ◇ 500mm Earth Strap (TnT-ES-500)
- ◇ 3 Phase Adaptor to 32A - 4 or 5 Pin (WCM-3Phase)
- ◇ 3 Phase Multi-Adaptor to 32 A (WCM-3PH-MADP)
- ◇ 3 Phase Multi-Adaptor Switch Selectable to 40 A (WCM-3PH-MADP-SW)
- ◇ Adaptor Cable - 20Amp/3Pin Socket (included with 20A units) (WCM-20/10)
- ◇ RCD Test Lead Set (RCD Switchboard Testing) (WCM-RCD-TEST-LEADSET)
- ◇ HBC Fuse (WCM-HCB10AM205)
- ◇ Test Probe Kit (WCM-Probe-Kit)
- ◇ Lightweight ATT Tags (Available in Blue, Black, Burgundy, Green, Orange, Red & Yellow) (WCM-ATT-TAGS-*)
- ◇ Medium Strength TT Tags (Available in Blue, Black, Burgundy, Green, Orange, Red, White & Yellow) (WCM-TT-TAGS-*)
- ◇ Heavy Duty Tags (Available in Blue, Black, Burgundy, Green, Orange, Red, White & Yellow) (WCM-TM-TAGS-*)
- ◇ Super Heavy Duty Tags (Available in Blue, Black, Burgundy, Green, Orange, Red, White & Yellow) (WCM-TA-TAGS-*)

Ordering Information

- ◇ TnT RCD (10 amps) (WCM-TNT-RCD)
- ◇ TnT RCD 20A (20 amps) (WCM-TNT-RCDX)

