



EARTH LEAKAGE TESTERS

Advanced RCD & ELCB
Testing Solutions

- RCD TRIP TESTING
- LOOP IMPEDANCE
- WIRING VERIFICATION
- PHASE ANGLE TESTING
- NCV DETECTION





Introduction to Earth Leakage Testing

Major Tech's Earth Leakage Testers are designed to verify the safety, reliability and performance of electrical installations and protective devices. From advanced multifunction testing to fast RCD trip verification, the range delivers accurate results for electricians, contractors, wholesalers and industrial maintenance teams.

What is Earth Leakage?

Earth leakage occurs when electrical current flows outside its intended path to earth, often caused by damaged insulation, faulty wiring or accidental contact with live conductors.

Residual Current Devices (RCDs) continuously monitor the difference between live and neutral current. When an imbalance is detected, the circuit is disconnected to help protect people, equipment and installations.

Why Earth Leakage Testing Matters

- Protects People: Reduces the risk of electric shock and injury.
- Prevents Fires: Detects dangerous leakage currents before faults escalate.
- Protects Equipment: Helps prevent damage to sensitive electrical systems.
- Ensures Compliance: Verifies correct operation of RCD and ELCB protection devices

Key Testing Concepts

Trip Current

The leakage current level required to trip the protective device.

- 30mA: Personal protection
- 100mA–1000mA: Equipment and fire protection

Trip Time

Measures how quickly the RCD disconnects the circuit after a fault is detected.

Phase Angle Testing

Tests RCD operation at both 0° and 180° to ensure reliable tripping under all conditions.

Loop Impedance

Measures the earth fault loop path to confirm protective devices can operate correctly during a fault.

Advanced Testers For Professionals

MT328

Earth Leakage Tester

Features

- 0° or 180° phase angle selection
- Operating voltage from 100V to 450V L-E
- Current settings from 5mA to 1000mA
- Microprocessor controlled for accuracy and reliability
- Direct readout of disconnection time
- Display mA sensitivity
- Indicates tripping phase angle



Technical Highlight

The MT328 provides advanced RCD analysis with accurate phase angle testing and programmable current settings, making it ideal for commercial, industrial and compliance testing environments.

MT325

Earth Leakage Tester

Features

- 216V to 265V AC Voltage Measurement
- 5mA- 500mA Test Current
- 0° - 180° Phase Angle Setting
- Double injection housing
- Correct wiring indication
- 2000ms direct readout of disconnection time
- Fully programmed test current settings
- Accurate trip timing with 1ms resolution
- Dual LED wiring verification



Technical Highlight

The MT325 delivers fast and accurate earth leakage testing with programmable test current settings and high-resolution trip time measurement. Its direct disconnection readout and dual LED wiring indication make it ideal for electricians performing reliable RCD verification across residential, commercial and maintenance applications.

MT312

Multi-Function Tester

Features

- 25V to 264V AC Volt Measurement
- 10mA, 20mA and 30mA ELCB/RCD Testing
- Compact multifunction tester for 3-wire AC circuits
- Loop impedance validation
- Polarity verification
- NCV functionality for safe voltage detection
- LED and LCD indication for wiring status and voltage readings



Technical Highlight

Designed for installation verification and maintenance applications where fast, reliable multifunction testing is required.

MT310

Earth Leakage Tester

Features

- Operates on 216V-264V AC systems
- Fixed current settings from 10mA to 35mA
- Compact and lightweight
- Correct wiring indication with neon lights
- AC voltage measurement on LCD display
- Separate test button
- Double injection rubber housing



Technical Highlight

The MT310 is a compact and easy-to-use earth leakage tester designed for quick verification of RCD protection devices. With built in wiring indication, AC voltage measurement and fixed trip current testing, the MT310 provides a practical solution for routine electrical safety inspections and installation testing.

MT329

Bluetooth Handheld Multifunction Tester

Features

- 10mA – 500mA RCD Trip Time, AUTO Test & Trip Level Functions
- 250V, 500V & 1000V Insulation Testing up to 4000MΩ
- AC/DC Voltage Measurement up to 500V
- High Current & RCD Safe Loop Impedance Testing
- PFC, PEFC & Phase Sequence Testing
- Type-A, Type-AC & Type-B RCD Testing
- Bluetooth Data Transfer to iOS & Android Devices
- Auto Discharge & Auto Power Off



Technical Highlight

The MT329 combines advanced earth leakage analysis with multifunction installation testing, delivering high-current loop impedance testing, programmable RCD analysis and insulation resistance measurement in a single professional solution. With Bluetooth connectivity, Type-A, Type-AC and Type-B RCD testing, plus accurate trip time and loop verification, the MT329 is ideal for electricians and contractors performing detailed compliance, fault finding and installation diagnostics across commercial and industrial environments.

Where Earth Leakage Testing Matters



Commercial Buildings

Ensures safe and reliable RCD protection in offices, retail spaces and public environments.



Industrial Facilities

Verifies fault protection systems in demanding high-load and harsh industrial environments.



Residential Installations

Protects occupants from electric shock by ensuring fast RCD disconnection during faults.



Distribution Boards

Confirms correct wiring, trip operation and safe fault current protection throughout installations.



Mining & Hazardous Environments

Maintains electrical safety and compliance in harsh and high-risk operating conditions.



Maintenance & Service Teams

Helps identify unsafe circuits and deteriorating insulation before failures occur.