Industrial

Multi-Function Electrical Tester

Spark-e-Mate

Electrical Installation Tester



CLIPSAL® by Schneider Electric

Comprehensive electrical wiring tests

Installation testing made easy

Why waste your precious time finding the correct instrument to test installations? The Clipsal Spark-e-Mate has you tested and covered. One instrument does it all!

The Clipsal Spark-e-Mate performs comprehensive electrical wiring tests relevant to Australian and New Zealand Standards from socket outlets to the switchboard.

Recording your verification results has never been easier. The 493BTLi Spark-e-Mate with *Bluetooth*® connectivity can save you even more time and money.

With a *Bluetooth*-enabled device, you can save, store and print reports for each installation, making accessibility to your original verification records simpler. Android and Apple iOS devices are supported by the 493BTLi.



Features

- Three-pin plug for socket testing.
- Optional test probes for lighting and Switchboards (493L).
- Optional *Bluetooth* logging.
- 493BTLi for Android and Apple iOS devices.
- Dimensions: 220mm x 110mm x 45mm.
- Tough rubber protective cover.
- Optional three-phase adaptor for industrial applications.
- Complies with AS/NZS Standards: AS/NZS3017, AS/NZS3260 (AS/NZS60950), AS/NZS3100, AS/NZS3350.1, AS/NZS61010.1 Category IV 600V.
- Integrated testing for AS/NZS 3003 Compliance for Electrical Installations in Hospitals, Aged Care & Child Minding

Benefits

- One electrical installation tester that does the required AS/NZS 3000 testing.
- Ensures every electrical installation is safe for your customers to use.
- No need to maintain and calibrate multiple pieces of test equipment.
- Using the optional *Bluetooth*, faster test cycles with reports for each installation can be stored and emailed.

Confidence with electrical certificates of compliance



❷ Plug into socket outlet or connect active, neutral and earth using the 493L



❶ Select function



❸ Record and report results

Bluetooth® SMART
493BTLi Logging

Save time, save money

Clipsal's Spark-e-Mate can test for:

Earth continuity

Is the earth bonded to the neutral properly? Is the earthing conductor resistance low enough to permit the passage of current necessary to operate the over current protective device?

Insulation resistance

Is the resistance between all live conductors and earth as high as it should be? (Tested using 250V DC or 500V DC selectable).

Polarity

Are the active and neutral wires wired correctly? Are there no other transpositions?

Correct circuit connections

Is the earth connected and at a safe potential?

Earth fault loop impedance (without tripping RCDs)

Is the total loop resistance of the active and earth wires as low as it should be, so that protective devices will operate?

Residual current device (earth leakage detector or safety switch)

Does it really work and trip in time at the correct residual current from the power outlet? (Includes advanced testing to AS/NZS3017:2007.)

Extension leads and power accessories

Test extension leads, power boards, double adaptors, etc.

Supply voltage

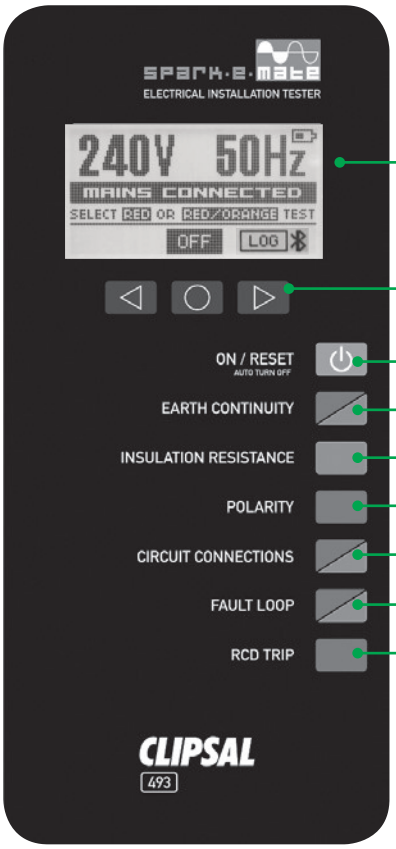
Is the mains supply within –6% and 10% of the specified 230V AC? (Other voltages to order.)

Mains frequency

Is it at 50Hz?

Three-phase circuits

Tests three-phase circuits for RCD trip, insulation resistance and fault loop with 493AD1050 three-phase adaptor.



Backlit graphical liquid crystal display (LCD) — displays instructions and test results

Menu buttons used to select voltage and current values, YES/NO actions and manual off

Turns on the tester and is used to reset after a test

Tests the earth impedance

Tests the wiring insulation

Tests for no wiring transpositions

Tests for no shorts and safe earth

Tests the active to earth loop

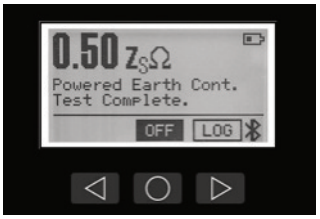
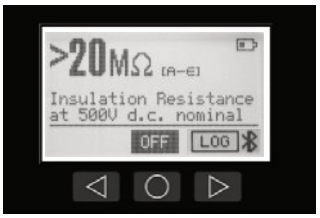
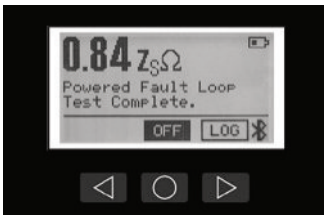
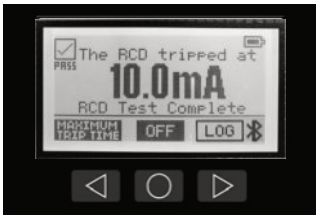
Tests RCD trip time and trip current

"I bought my Spark-e-Mate with Bluetooth and thought I should tell you that it is a fantastic piece of equipment. The Spark-e-Mate takes so little time to commence testing that I reckon it has cut my testing down by over half.

Good job! I have been and will continue to voice my appreciation to my fellow electricians about Clipsal's Spark-e-Mate"

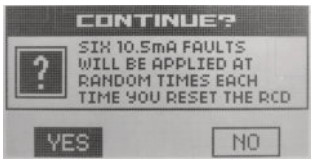
Lindsay Schafer, DML Electrical, Rockhampton, QLD

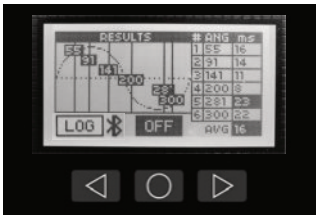
Electrical installation tester typical results

Test	Result	Test	Result
EARTH CONTINUITY		CIRCUIT CONNECTIONS	
INSULATION RESISTANCE		FAULT LOOP	
POLARITY		RCD TRIP	
RCD TRIP AS/NZS 3760 IN-SERVICE RCD TESTING		RCD TRIP AS/NZS 3003 RCD TESTING IN BODY PROTECTED & CARDIAC PROTECTED AREAS	









Product catalogue numbers

Catalogue number	Description
493	Spark-e-Mate Electrical Installation Tester
493L	Optional test probes
493BTLi	Spark-e-Mate with *Bluetooth* for Android and Apple iOS devices
493BTLKi	Spark-e-Mate kit with *Bluetooth* and leads for Android and Apple iOS devices (kit not currently available in NZ
493AD1050	Three Phase Adaptor kit
493SB	Shoulder bag

Accessories

493BTLKi



Optional Test Lead Kit **493L**



Optional Three-Phase Adaptor **493AD1050**

For more information about the Clipsal Spark-e-Mate, contact your local Clipsal and Schneider Electric Partner Business Representative, electrical wholesaler or visit clipsal.com

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Schneider Electric (Australia) Pty Ltd
33-37 Port Wakefield Road
Gepps Cross
South Australia 5094

PO Box 132, Enfield Plaza
South Australia 5085

National Customer Care
Enquiries: 1300 2025 25
Email: plugin@clipsal.com.au

Access this document directly:
clipsal.com/brochures

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