## Multi-Function Electrical Tester

Spark-e-Mate
Electrical Installation Tester





## 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



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



1 Select function



**3** Record and report results



# 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.



"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**

INSULATION RESISTANCE

### Result

### Result







sulation Resistance 500V d.c. nominal

NO WIRING TRANSPOSITION DETECTED - REFER TO HANDBO

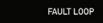
OFF LOG \*

OFF LOG X



**Test** 





CIRCUIT CONNECTIONS





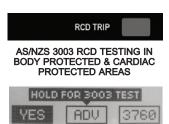


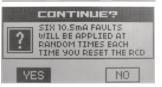


POLARITY













### Product catalogue numbers

| Catalogue number | Description  |
|------------------|--|
| 493              | Spark-e-Mate Electrical<br>Installation Tester   |
| 493L             | Optional test probes   |
| 493BTLi          | Spark-e-Mate with<br>Bluetooth for Android and<br>Apple iOS devices  |
| 493BTLKi         | Spark-e-Mate kit with <i>Bluetooth</i> and leads for <b>Android and</b> Apple iOS devices (kit not currently available in NZ |
| 493AD1050        | Three Phase Adaptor kit  |

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

Shoulder bag

### **Accessories**







Optional Three-Phase Adaptor 493AD1050

\*Apple is a trademark of Apple Inc.

#### Schneider Electric (Australia) Ptv Ltd

33-37 Port Wakefield Road Gepps Cross South Australia 5094 PO Box 132, Enfield Plaza

South Australia 5085

493SB

National Customer Care Enquiries: 1300 2025 25 Email: plugin@clipsal.com.au Access this document directly:

clipsal.com/brochures

and discontinue items without incurring obligation and whilst every effort is made to ensure that descriptions, specifications and other information in this catalogue are correct, no warranty is given in respect thereof and the company shall not be liable for any error therein.

Schneider Electric (Australia) Pty Ltd reserves the right to change specifications, modify designs

Trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.

This document has been printed using FSC Mix Certified paper. ISO 14001 environmental management system in use at mill.