

# MX 531

## ELECTRIC SOCKET TESTER

### EARTH & 30 mA RCD TESTS



### MX 5 "3-in-1" for 2P+E sockets

**PRACTICAL:** Totally autonomous (no battery needed) with immediate display without adjustments or selection of a position

**CLEVER:** A tester suitable for any socket configuration with its rotating head and compact size

**INDISPENSABLE:** use on 2P+E sockets with verification of the connection of the line, neutral and earth conductors.

**QUICK & EASY:** Instantaneous display on the two-colour LCD screen facilitating interpretation of the measures according to the conformity of the installation.

**EFFECTIVE:**

- Measures the voltage and displays the connection configuration
- Measures the earth without tripping any RCDs : < 15 mA
- A test button to trip the 30 mAAC RCD with the display held for 7 s



|                  |                |                |                    |
|------------------|----------------|----------------|--------------------|
| 300 V<br>CAT III | IEC<br>61557-3 | IEC<br>61557-6 | IEC<br>61010-2-030 |
|------------------|----------------|----------------|--------------------|

Measure up





### A 3-in-1 tester which interfaces with any socket in electrical installations using a TT earthing system

1. Voltage measurement and verifications of the conductor positions
2. RE earth resistance measurement
3. 30 mA<sub>AC</sub> RCD operation test

Portable, ultra-compact and lightweight, the MX 531 fits comfortably in one hand and is plugged directly into the socket. It quickly detects the earth resistance by no-trip measurement and checks the connections of the line, neutral and earth conductors in a TT system. The 30mA trip checks that there is an RCD connected to the power socket.

| <b>MX 531</b>                       |   |
|-------------------------------------|---|
| <b>RE earth resistance</b>          | 3 to 1,999 Ω  |
| <b>Autoranging</b>                  | 3 to 199.9 Ω and 180 Ω to 1,999 Ω   |
| <b>Resolution</b>                   | 0.1 / 1 Ω   |
| <b>Accuracy</b>                     | +/- (3% of reading + 5D)  |
| <b>RE error / earth fault</b>       | Red screen display  |
| <b>Protection / Overload rating</b> | 300V CAT III  |
| <b>Voltage</b>                      | 100 to 400 V  |
| <b>Line-to-neutral voltage</b>      | 100 to 420 V-50/60Hz - indication of L/N inversion - if <195 V or >253 V: fault |
| <b>Resolution</b>                   | 1V  |
| <b>Accuracy</b>                     | +/- (2% + 1D)   |
| <b>Line-to-earth voltage</b>        | 195 V to 253 V, 50/60 Hz  |
| <b>Indication of position</b>       | Line, neutral and earth   |
| <b>30mA<sub>AC</sub> RCD</b>        | Test if RE correct  |
| <b>Rating</b>                       | 30 mA and time <200 ms  |
| <b>Conditions</b>                   | 230 V line and neutral, current 30mA 0% and +6%, time +/-4ms                    |

| <b>GENERAL SPECIFICATIONS</b>   |  |
|---------------------------------|--|
| <b>Display</b>                  | Two-colour blue / red backlit LCD, 46x50 mm, 2,000 counts    |
| <b>Socket</b>                   | 2P +E -Types E and F Rotating plug -90°/+180°                |
| <b>Safety</b>                   | EN61010-2-030, pollution degree 2, CAT III-300 V             |
| <b>Operating temperature</b>    | -10 to +45°C   |
| <b>Standards</b>                | Test as per IEC/EN 61557-1 -3 and 6 - EMC as per IEC 61236-1 |
| <b>Dimensions / Weight / IP</b> | 185X65X53 mm / 230 g +/-50 g / IP40                          |

The MX 531 earth tester is reliable, simple and accurate with a resolution as fine as 0.1 Ω.

Once the instrument has been connected correctly (earth present, 230 V supply, phase right or phase left), the earth resistance value is displayed instantaneously in the lower part of the 3-digit LCD screen.

As soon as the MX 531 is connected to a 2P+E 10/16 A socket, it instantaneously displays the socket's connection status, taking advantage of the top-quality backlit LCD screen.

The display changes colour according to the conformity of the installation: if the installation complies with the standards, the display turns blue, but it changes to red if there is a fault or a problem with the earth connection.

A pictogram of the socket on the display makes it easy to:

- ▶ check the connection to the earth RE (the display turns red with a special pictogram if no earth is present)
- ▶ identify the phase position: a pictogram warns you if there is L/N or L/PE inversion
- ▶ check the conformity of the 230 V mains voltage (red display if connection between phases, RE > 100 Ω or > 2000 Ω or > 253 V)
- ▶ from 3 to 99 Ω, the screen background colour is blue (less than the 100 Ω threshold stipulated by NF C 15-100)
- ▶ From 100 à 1999 Ω, the screen background is red
- ▶ 30 mA RCD test by pressing the TEST button, with display hold for 7 seconds

OK  Not ok

### STATE AT DELIVERY AND REFERENCE

#### MX 531

EARTH RCD30mA

Equipped with a wrist strap, bag and user's manual on paper

#### MX0531



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