MX 535

ELECTRICAL INSTALLATION TESTER





MEASUREMENTS COMPLIANT WITH NFC 15-100 & FDC 16-600

- Earth measurement by stake and loop methods
- Continuity measurement at 0.2 A
- Insulation testing
- RCD testing: current and trip time
- Automatic test sequences
- Storage of test results
- ANDROID application for report generation
- Power supply by mains-rechargeable batteries, USB socket or vehicle cigarette lighter

600 V CAT III

IP 54

Measure up

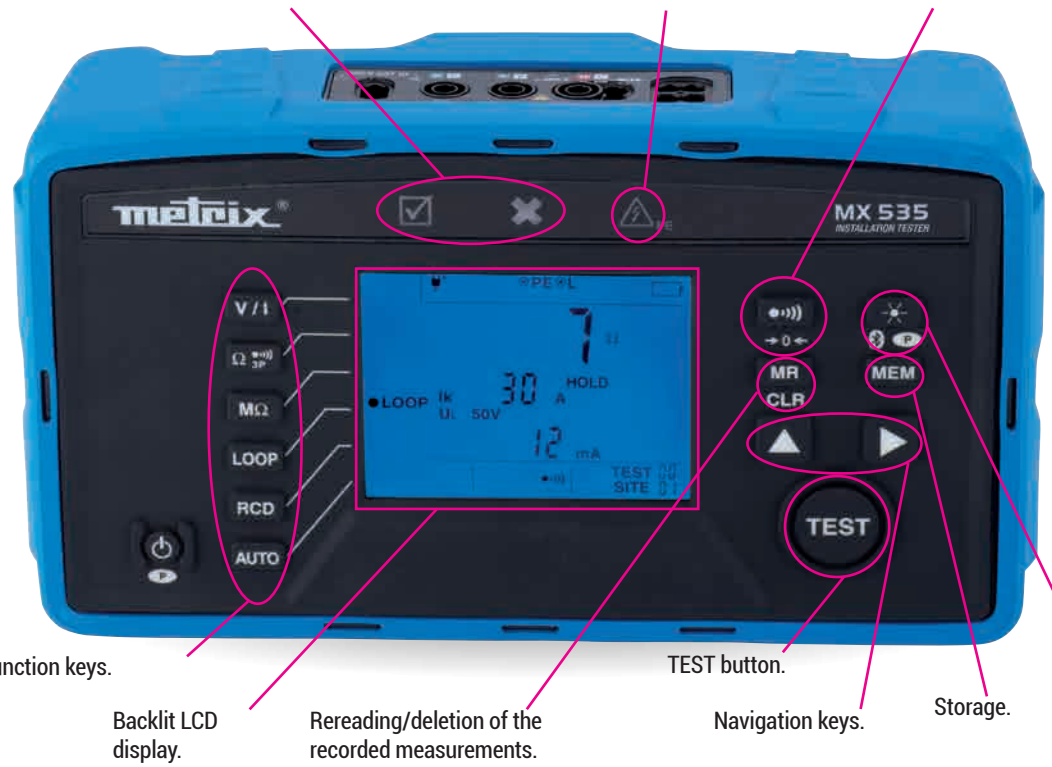
ELECTRICAL INSTALLATION TESTER

The MX 535 is a multifunction instrument intended for inspection organizations, installers, self-employed electricians and maintenance teams, with an ergonomic design which makes it particularly easy to use.





Neck strap for hands-free use.



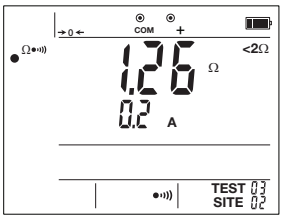


Built-in stands for benchtop use.



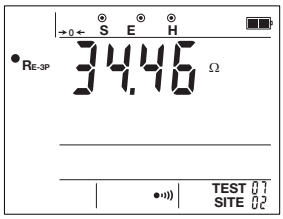
USB charger for mains socket, USB socket or vehicle cigarette lighter.

FUNCTIONS



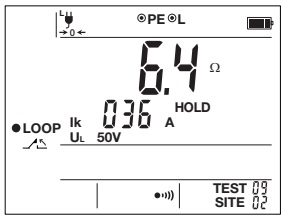
Continuity

Check the continuity of the protective conductors and the main and supplementary equipotential bonds.



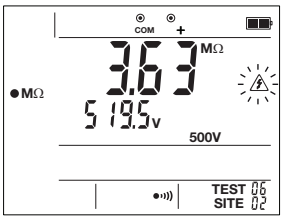
Earth

Measurement with stakes (3-pole method) to obtain the precise value of the resistance of the earth electrode.



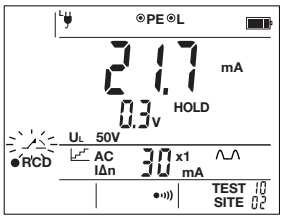
Loop

Measurement by earth loop to obtain a measurement by excess of the earth electrode resistance (in TT). Ideal for urban areas.
On a TN or TT installation, fault loop impedance measurement can be used to calculate the short-circuit current and size the protective systems for the installation (fuses or RCDs).



Insulation

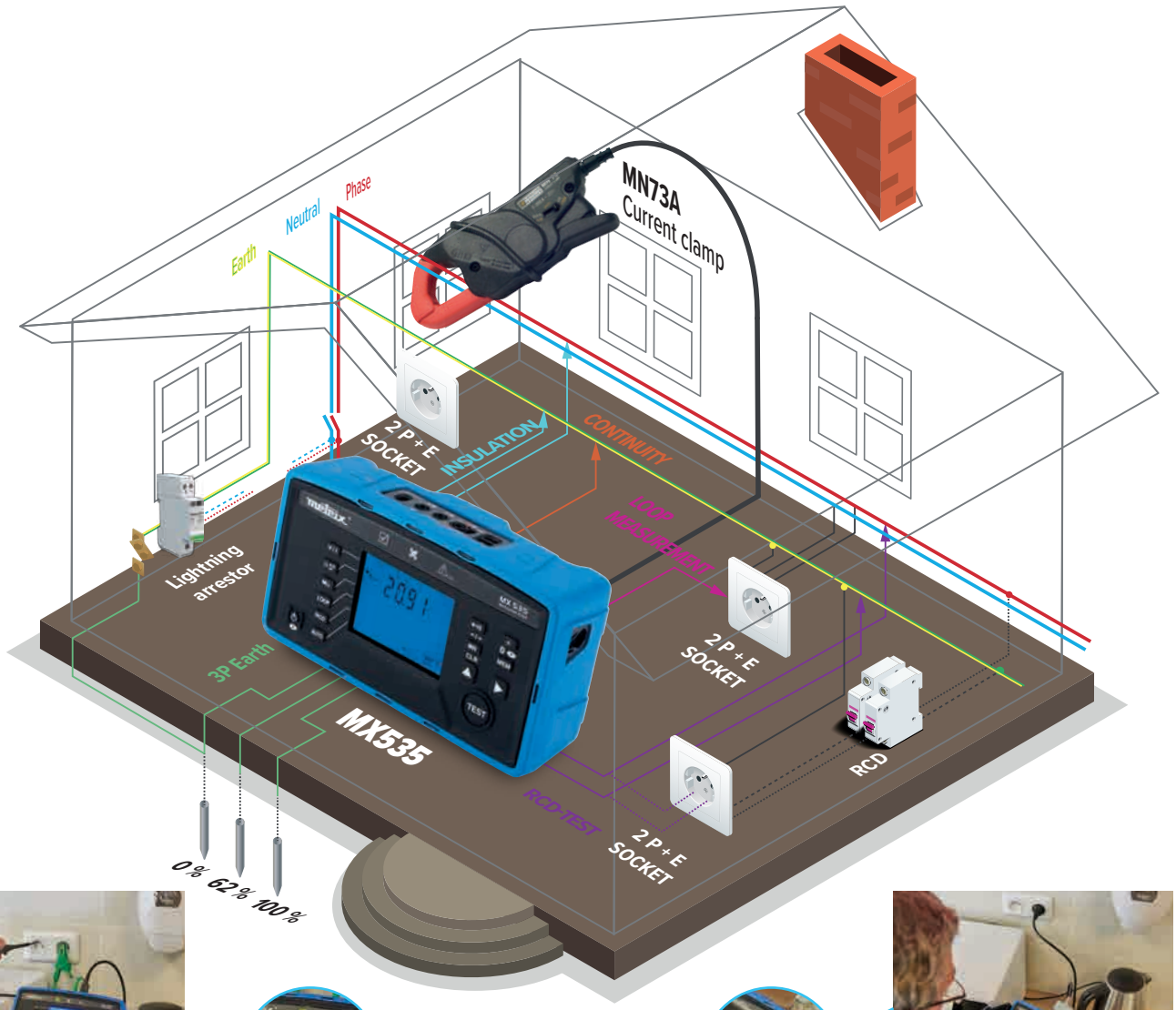
Measure the insulation resistance between each active conductor and the earth.



RCD

Check that the residual current device trips if there is a fault current less than or equal to its rated fault trip current.

ALL THE NECESSARY MEASUREMENTS IN A SINGLE INSTRUMENT





PASS/FAIL LED for instantaneous display of the result.





3-pole cable for direct measurements on 2P+E sockets.

ANDROID IT-REPORT APPLICATION

This ANDROID application can be used to transfer the test results stored in the MX 535 onto a tablet or smartphone via Bluetooth.
Test reports are then generated and sent automatically by email, or simply stored for processing later on.



TECHNICAL SPECIFICATIONS

VOLTAGE MEASUREMENTS				
Resolution	0.1 V			
FREQUENCY MEASUREMENTS	30.0 - 999.9 Hz			
CONTINUITY	Measurement current ≥ 200 mA			
Measurement range	0.00 - 9.99 Ω			
Resolution	0.01 Ω			
Accuracy	± (2% R + 2 cts)			
RESISTANCE	1 - 9 999 Ω		10.00 - 99.99 kΩ	
Resolution	1 Ω		10 Ω	
Intrinsic uncertainty	± (1% R + 5 cts)		± (1% R + 5 cts)	
INSULATION AT 250 V / 500 V / 1,000 V	0.01 - 1.99 MΩ	2.00 - 99.99 MΩ	100.0 - 999.9 MΩ	
Resolution	10 kΩ	10 kΩ	100 kΩ	
Intrinsic uncertainty	± (5% R + 3 cts)	± (3% R + 3 cts)	± (3% R + 3 cts)	
Rated current	≥ 1 mA			
3P EARTH RESISTANCE	0.50 - 99.99 Ω	100.0 - 999.9 Ω	1,000 - 2,000 Ω	
Resolution	0.01 Ω	0.1 Ω	1 Ω	
Intrinsic uncertainty	± (2% R + 10 cts)	± (2% R + 5 cts)	± (2% R + 5 cts)	
Rated current	4.3 mA	4.2 mA	3.5 mA	
LOOP IMPEDANCE				
No-trip mode (I=12mA)	1 - 19 Ω	20 - 39 Ω	40 - 2,000 Ω	
Resolution	1 Ω	1 Ω	1 Ω	
Accuracy	± 2 cts	± (15% R + 3 cts)	± (5% R + 2 cts)	
Trip mode (I=300mA)	0.1 - 0.9 Ω		1.0 - 399.9 Ω	
Resolution	0.1 Ω		0.1 Ω	
Accuracy	± 2 cts		± (5% R + 2 cts)	
RCD TEST (Types AC and A)	Installation voltage: 90 to 450 V / Installation frequency: 45 to 65 Hz			
Pulse mode and no-trip mode	Calibres: 30 mA / 100 mA / 300 mA / 500 mA / 650 mA			
Maximum duration of test current application	300 ms			
Ramp mode				
Maximum duration of test current application	30 mA calibre: 4,600 ms			
CURRENT (with MN73A clamp)				
Calibre	2 A		200 A	
Measurement range	10 mA to 2.4 A		1 A to 200 A	
Resolution	0.1 mA to 1 mA		0.01 A to 0.1 A	
VOLTAGE (on 4-point connector)	AC+DC		DC	
Measurement range	2.0 - 999.9 mV	1,000 - 1,200 V	± (0.0 - 999.9 mV)	± (1,000 - 2,000 V)
Resolution	0.1 mV	1 mV	0.1 mV	1 mV
Accuracy	± (1% R + 2 cts)			
PHASE ROTATION	45 to 550 V / 45 to 65 Hz			

GENERAL SPECIFICATIONS

Display	231-segment backlit LCD
Data storage	30 sites x 99 tests
Power supply	6 Ni-MH. Rechargeable batteries
Average battery life	20 hours
International standards	IEC 61010-1, IEC 61010-2-030, IEC 61010-2-034 / 600 V CAT III (300 V CAT II on charger input), IEC 61557 parts 1, 2, 3, 4, 5, 6, 7 and 10
Electromagnetic compatibility	Compliant with the IEC 61326-1 standard
Protection rating	IP 54 as per IEC 60 529 / IK 04 as per IEC 50102
Communication	Bluetooth Class 1, range > 10m
Dimensions (L x W x H)	223 x 126 x 70 mm
Weight	Approx. 700 g

ACCESSORIES

Remote-control probe	**P01102157**
Euro-socket test cable	**HX0300**
Neck strap	**HX0302**
MN73A clamp	**P01120439**
Basic earth kit	**P01102019**
Continuity rod	**P01102084A**
MX535 kit + Rod + Earth kit	**P01299975**

STATE AT DELIVERY AND REFERENCE

MX 535 **MX0535**

1 MX 535 low-voltage installation tester delivered with:

1 carrying bag, 1 neck strap, 1 EURO 3-pole mains plug, 3 safety cables (1.5 m - 4 mm – red/black/green), 3 crocodiles clips (red/black/green), 1 black test probe, 6 NiMH batteries, 1 2A USB power supply, 1 USB-razor-type connector power supply cable, 1 User's Manual on CD-ROM (5 languages), 1 quick startup guide on paper, 1 safety datasheet, 1 battery information sheet, 1 test report with measurement report.



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FRANCE
Chauvin Arnoux
190, rue Championnet
75876 PARIS Cedex 18
Tel: +33 1 44 85 44 38
Fax: +33 1 46 27 95 59
export@chauvin-arnoux.fr
www.chauvin-arnoux.com

UNITED KINGDOM
Chauvin Arnoux LTD
Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk
Dewsbury, West Yorkshire - WF12 7TH
Tel: +44 1924 460 494
Fax: +44 1924 455 328
info@chauvin-arnoux.co.uk
www.chauvin-arnoux.com

MIDDLE EAST
Chauvin Arnoux Middle East
P.O. BOX 60-154
1241 2020 JAL EL DIB - LEBANON
Tel: +961 1 890 425
Fax: +961 1 890 424
camie@chauvin-arnoux.com
www.chauvin-arnoux.com

CHAUVIN ARNOUX GROUP