metrix®

Insulation Tester - Multimeter

MX 407

IEC 61010
600 V
CAT IV

IEC 61557

- Insulation at 250 / 500 / 1,000 V
- AC or DC voltage measurement up to 600 V
- Insulation resistance up to 4 GΩ
- Continuity with 200 mA test current
- Dual analogue and digital display on a wide backlit screen

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Ergonomics

Equipped with a large backlit 4,000-count display, the **MX 407** insulation tester is particularly easy to read. The dual analogue and digital display means you can quickly view the results and interpret them more accurately. To make reading even easier, the HOLD function allows you to freeze the display of your results.

The moulded casing has been specially designed for easy handling and anti-shock protection. This on-site instrument can be used hands-free thanks to its bag with a neck strap. Ideal for laboratory use, it can also be set up on a bench or table with its stand at the rear.

An automatic shutdown function is included to optimize battery life.

Safety

The **MX 407** is a safe instrument. If a dangerous voltage is present, it is detected automatically. Insulation measurements for voltages greater than 25 V are automatically inhibited, making measurement impossible if there is any danger.

Measurements

The **MX 407** insulation tester can be used to measure insulation at 250 V / 500 V / 1,000 V, so it is suitable for a wide range of applications.

This high-performance instrument measures insulation resistance up to 4 GΩ, resistance up to 400 kΩ and voltage up to 600 VAC/DC.

In compliance with the applicable standards, continuity measurement is carried out with a test current ≥ 200 mA. This measurement directly integrates automatic compensation of the cable resistance for more accurate readings.

Applications

The **MX 407** is used mainly to check safety on electrical installations. It measures insulation, resistance and continuity in compliance with the applicable international standards: IEC 60364, NF C 15-100, VDE 100, etc.

It is also ideal for maintenance and repair of electrical equipment such as motors, cables, etc.

Measuring insulation in relation to the earth on an electrical installation

Measuring insulation on a motor for preventive maintenance

Note on preventive maintenance *In addition to the measurements carried out when commissioning new and reconditioned equipment, periodic insulation testing helps to prevent potential incidents on installations through a preventive maintenance programme. This enables you to detect ageing and therefore any premature deterioration of the insulation before it becomes sufficiently severe to cause incidents. Such incidents may have serious consequences in terms of safety for people and property and in terms of production stoppage costs in industry.*

MX 407		
Voltage measurement		
	Range	0 to 600 $V_{AC/DC}$
	Accuracy	±0.8 % ±3 cts (DC) ±1.2 % ±10 cts (AC)
Insulation		
Voltage testing	250 V	10 kΩ to 4 GΩ
	500 V	10 kΩ to 4 GΩ
	1,000 V	10 kΩ to 4 GΩ
Accuracy	Range 4 MΩ / 40 MΩ	±2 % ±10 cts
	Range 400 MΩ	±2 % ±5 cts
	Range 4 GΩ	±4 % ±5 cts
Voltage alert indicator		Yes > 25 V
Test inhibition		Yes > 25 V
Continuity		
Range		0.0 to 400 Ω
Measurement current		≥ 200 mA
Cable compensation		Yes
Audio signal		Audio signal triggered at < 35 Ω ±3 Ω
Résistance		
Range		0.00 to 400 kΩ
Accuracy		±1.2 % ± 3 cts
Automatic shutdown		After 10 minutes without use
Display		LCD + Bargraph
Backlighting		Yes
Power supply		6 x 1.5 V AA batteries
Dimensions		H 200 x W 92 x D 50 mm
Weight		700 g (with batteries)
Electrical safety		IEC 61010 600 V CAT IV / IEC 61557-3-4

To order

MX0407

➤ **1 insulation tester delivered in a hands-free bag with a set of 1.5 m leads (red/black), 1 black test probe (diameter 2 mm), 1 red crocodile clip and 1 operating manual in 5 languages.**

The continuity rod is ideal for use with the MX 407 and is available as an option.

This practical accessory helps to save time by quickly testing all the metal chassis earths: lighting, mains sockets, etc.

The **MX 407** is delivered ready to use with its measurement leads and bag with neck strap.

906211234 – Ed.1 - GB - 03/2011 - Characteristics subject to modifications according to technological developments.

CHAUVIN ARNOUX GROUP

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