

metrix

MX 409 INSULATION TESTER - MULTIMETER



Verification according to the applicable standards

- Insulation at 250 / 500 / 1,000 V
- Insulation resistance up to 11 GΩ
- Manual, locked and timer modes
- AC and AC+DC voltage measurement up to 700 V
- Continuity at 200 mA
- Visual alarm, blue / red backlighting



IP
40

600 V
CAT IV

IEC
61557



Measure up



ERGONOMICS

Equipped with a large display with 2-colour backlighting, the **MX 409** insulation tester is particularly easy to read. The double digital display simultaneously shows the insulation value and the real test voltage. Thanks to alarm threshold programming, the test sanction can be read directly on the display.

Equipped with a shockproof sheath, the instrument offers excellent grip. It has a stand which can be folded out to ensure stability when used on a horizontal surface. The bag supplied as standard can be used to stow all the accessories and the built-in neck strap allows hands-free use. The automatic power-off function helps to optimize the life span of the batteries.



Shockproof sheath with stand

Backlit LCD screen, double digital display: insulation value and real voltage

TEST start

HOLD: automatic freezing of the display at the end of each measurement

Measurement terminals



4 keys for access to the functions: HOLD, backlighting, compensation of cable resistance, buzzer, timer, etc.

7-position switch for direct access to the functions



Bag for hands-free use.

FUNCTIONS AND APPLICATIONS

The **MX 409** is mainly used to check the safety of electrical installations. It measures resistance, insulation and continuity in compliance with the applicable standards: IEC 60364, NFC 15-100, VDE 100, etc. It is also ideal for maintenance and repair of electrical equipment such as motors, cables, etc.

Preventive maintenance "In addition to the measurements carried out on new and reconditioned equipment during commissioning, regular insulation testing on installations and equipment helps to avoid such incidents through preventive maintenance. These tests detect ageing and premature deterioration of the insulating properties before they reach a level likely to cause problems. The severity of such incidents may affect the safety of people and property, as well as generating production downtime costs in industry."

SAFETY

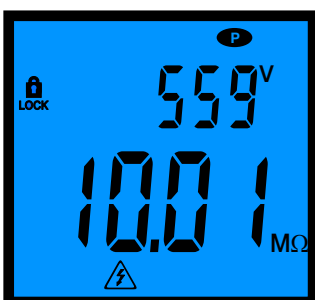
The **MX 409** is a safe instrument. The presence of a hazardous voltage is detected automatically. Insulation measurement in the presence of a voltage greater than 30 V is automatically inhibited, making insulation testing .

MEASUREMENTS

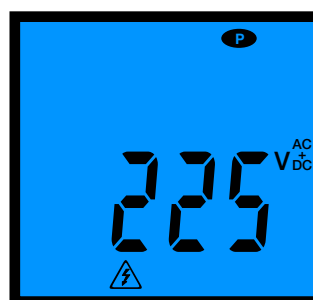
The **MX 409** insulation tester can measure insulation at 250 V / 500 V / 1,000 V, making it ideal for a large number of applications. It offers high-performance insulation resistance measurements up to 11 G Ω , while also measuring resistance up to 420 k Ω and voltage up to 700 VAC/DC. In compliance with the applicable standards, continuity measurement is performed with a test current ≥ 200 mA. This measurement directly integrates automatic compensation of cable resistance for greater accuracy.



Preventive maintenance preventive on a motor



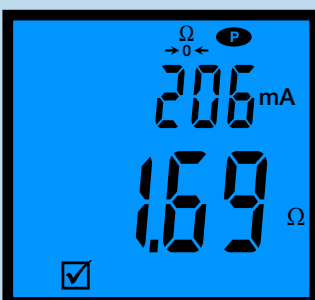
*Insulation measurement with simultaneous display of the insulation and the real test voltage
> Insulation measurement in manual or locked mode or with a duration programmed using the timer*



Voltage measurement and battery charge test in the voltage position

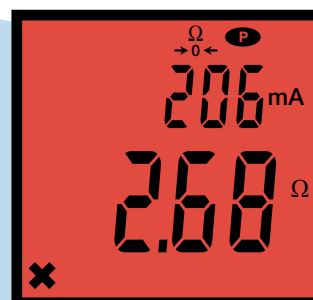


Resistance measurement



*Continuity measurement at 200 mA with measurement < 2 Ω
Blue screen and*

> the blue or red backlighting is used to indicate the alarm status immediately



*Continuity measurement at 200 mA with measurement > 2 Ω
Red screen and*

TECHNICAL SPECIFICATIONS

MX 409

Voltage		
Range		1-700 V
Resolution		1 V
Accuracy		$\pm 1.2\% R \pm 1$ ct in AC+DC; $\pm 1\% R \pm 1$ ct in DC
Insulation		
Test voltage	250 V	50 k Ω to 4.2 G Ω
	500 V	100 k Ω to 4.2 G Ω
	1 000 V	200 k Ω to 11 G Ω
Accuracy	50 k Ω to 400 M Ω	$\pm 1.5\% R \pm 10$ cts
	360 M Ω to 4.2 G Ω	$\pm 4\% R \pm 10$ cts; $\pm 4\% R \pm 5$ cts (at 1,000 V)
	3.6 G Ω to 11 G Ω	$\pm 10\% R \pm 10$ cts
	Voltage alert indicator	Yes > 30 V
	Test inhibition	Yes > 30 V
	Timer	10 s to 39 min 59 s
Continuity		
	Range	0.02 Ω - 40 Ω
	Measurement current	≥ 200 mA
	Cable compensation	up to 5 Ω
	Audible beep	< 2 Ω or < 1 Ω
Resistance		
	Range	1 Ω to 420 k Ω
	Accuracy	$\pm 1.2\% R \pm 3$ cts
	Automatic power-off	After 10 min without use
	Backlighting	blue / red
	Power supply	6 x LR 6 or AA batteries
	Standards	IEC 61557-1-2-4-10
	Electrical safety	IEC 61010-1, 61010-2-030, 61010-2-034 - 600V CAT IV
	IP / IK index	IP 40
	Dimensions / weight	218 x 95 x 63 mm / 760 g

STATE AT DELIVER AND REFERENCES

MX 409

MX409 insulation tester delivered in a hands-free bag containing 2 safety leads (1 red and 1 black), 1 red crocodile clip, 1 black test probe, 1 protective sheath mounted on the instrument, 6 x LR6 or AA batteries, 1 safety datasheet, 1 quick start guide and 1 verification certificate.

MX0409



ACCESSORIES AND REPLACEMENT PARTS

Set of safety leads (red and black, 1.5 m)
Crocodile clips (red + black)
Test probe (red + black)
Continuity rod

P01295289Z
P01295457Z
P01295454Z
P01102084A



The continuity rod is ideal for use with the MX 409 (option). Practical and time-saving, it can be used to quickly test all the metal chassis earths: lighting, mains socket, etc.

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