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WHY BUY
WHEN YOU CAN HIRE

MIT510

5 kV Insulation Resistance Tester



- Mains or battery powered
- Digital/Analogue backlit display
- Selectable test voltage from 250 to 5000 V
- Automatic IR test
- Measures to 15 T Ω
- Complete with calibration certificate

DESCRIPTION

The new 5 kV insulation resistance testers from Megger are designed specifically to assist you with the testing and maintenance of high voltage electrical equipment. The case is incredibly rugged and easy to carry, being made of tough polypropylene and achieving an ingress protection rating of IP65. In addition, the model number is marked on both the top and side of the case for ease of identification in stores or vehicles.

The instrument has a large easy to read backlit LCD display making it equally suitable for use in both bright sunlight and poorly lit environments. Information displayed includes resistance, voltage, leakage current, capacitance, battery status and time constant. In addition, the elapsed time of the test is displayed constantly removing the need for separate timers.

The instrument can test when being powered by the mains or its internal rechargeable battery, a great benefit when site conditions are unknown or long term testing is required.

The controls of the instrument are clear and unambiguous and a "quick start" guide is included in the lid of the instrument removing the need to carry bulky manuals under site conditions.

The instrument is fitted with a guard terminal to enhance accuracy. The guard test lead is included as standard with the instrument.

To further enhance the flexibility of the instrument the MIT510 has the facility to set the test voltage in steps from 250 V to 5000 V avoiding the expense of several insulation resistance testers to meet your application needs.

The IR tester is designed to meet the highest safety standards and meets the requirements of EN61010. In addition, the instrument measures the voltage at the terminals and if this is above 50 V then the instrument will display the high voltage warning and inhibit testing. At the end of the test the instrument will automatically discharge the energy transferred to the equipment during the test phase.

ELECTRICAL SPECIFICATIONS

Voltage input range:

85-260 V, 50/60 Hz

Battery life:

6 hours continuous testing at 5 kV

Test voltages:

250 V, 500 V, 1000 V, 2500 V, 5000 V

Accuracy (23°C):

±5% to 1 TΩ
±15% 1 TΩ to 7.5 TΩ
±20% 5 TΩ to 10 TΩ ±5 cts

Guard:

2% error guarding 500 kΩ leakage with 100 MΩ load

Display range:

Digital display 10 kΩ to 15 TΩ
Analogue display 100 kΩ to 1 TΩ

Short circuit/charge current:

3 mA

Capacitor charge time:

≤ 5 seconds per μF at 3 mA

Capacitor discharge time:

≤ 5 seconds per μF to discharge from 5000 V to 50 V

Capacitance measurement:

1 nF to 50 μF (dependant on measurement voltage)

Capacitance measurement accuracy (23°C):

±5% ±5 nF

Voltage output accuracy (0°C to 30°C):

0 - +4% of nominal test voltage at 100 MΩ load

Current measurement range:

±0.01 nA to ±5 mA

Current measurement accuracy (23°C):

±5% ±0.2 nA at all voltages

Display:

Analogue/Digital 3 digits

Interference rejection:

2 mA rms

Timer range:

Counts up to 99 minutes from start of test

Test regimes

Auto IR

Lead set:

Three leads with compact clamp, flexible silicon insulated.

Environmental

Operating temperature:

-10°C to 50°C

Storage temperature:

-25°C to 65°C

Ingress protection (lid closed):

IP65

Humidity:

90% RH non-condensing at 40°C

Safety:

Meets the requirements of EN61010-1:2001 CATIII 300 V

EMC

Meets the requirements of EN61326-1:1998 for use in heavy industrial areas.

Dimensions:

305 x 194 x 360 (mm) (12 x 7.6 x 14.2 inches)

Weight:

6.75 kg (15lb) approx



ORDERING INFORMATION	
Item (Qty)	Order Code
5kV insulation resistance tester	MIT510
Included Accessories	
3m lead set	8101-181
User guide on CD-ROM	
Optional Accessories	
3m lead set with straight jaw clamps	6220-797
15m lead set	8101-183

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3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

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*subject to availability and conditions

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