The MIT200 is one of the smallest insulation testers available on the market today. With options of a two and three test voltage instruments, the MIT200 instruments offer a range of safety and operation features.

The display offers a combination of digital readout and analogue display, using Megger’s patented DART display technology, which include the benefits of an LCD display, such as robust, clear and accurate measurement, with an analogue pointer response for evaluating circuit charge and discharge characteristics.

The instrument housing is in tough ABS, designed to withstand the rigours of hard use, and is small enough to drop into your pocket when not in use.

Battery requirements are 6 AA batteries of either standard alkaline or nickel metal hydride (NiMH) rechargeable type. A low battery warning indicator gives advanced warning of exhausted batteries.

**Continuity testing**

Automatic continuity testing is performed at 200 mA to ensure compliance with international requirements. No need to press the test button.

All instruments will measure up to 100 Ω on continuity, of which 0-10 Ω is performed at greater than 200 mA to meet international electrical testing requirements.

**Insulation testing**

Insulation testing is possible up to 1000 MΩ on all ranges. Auto discharge ensures all circuits are safely discharged after testing.

1000 V insulation test ranges have a high voltage warning prior to test voltage being applied.
FEATURES AND BENEFITS SUMMARY

- Meets the international EN61557 requirements of the rated test voltage into a 1 mA load.
- Digital display of insulation measurement up to 1000 MΩ on a linear or logarithmic analogue arc and a digital display.
- Continuity range has 0.01 Ω resolution and a short circuit current in excess of 200 mA.
- Automatic continuity testing leaves both hands free. No need to press the test button.
- Automatic power-off if left unattended reduced wasted battery life.
- Automatic voltage detection avoids accidental contact with dangerously live circuits.
- Test lead zero allows compensation for test lead resistance.
- Buzzer range operates at <5 Ω.

Safety
Every Megger instrument is designed with safety as its primary objective. All instruments meet or exceed the requirements of safety directive IEC 61010 and EN61557 for insulation and continuity testing.

Default fault meter
A built-in voltmeter automatically switches in when the instrument is connected to a circuit with an AC or DC voltage greater than 25 V.

Test inhibit
Circuits in excess of 25V will generate a voltage warning. Circuits over 50V will inhibit testing on both continuity and insulation test ranges, protecting the operator and the instrument from injury or damage.

600V CATIII
The MIT200 series has been designed for use on applications up to 600 V CATIII.

APPLICATIONS
The MIT200 series will find applications in electrical contracting, both on domestic and industrial systems, as well as site maintenance and service departments.

The MIT200 series of insulation and continuity testers are ideal for testing transformers, motors, generators, switchgear, panel building, domestic appliances, power tools etc., as well as fixed electrical wiring systems.

Their small size and light weight make them ideal for those engineers that need to carry them for extended periods.

All instruments meet the requirements of most International Standards including VDE0413 Part 1 and BS7671 (the 16th Edition of the IEE Wiring Regulations).

MIT200 OPTIONS

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<td>250 V</td>
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<td>500 V</td>
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<td>1000 V</td>
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<td>1000 MΩ range</td>
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**SPECIFICATIONS**

**Insulation ranges**
Nominal test voltage: 1000 V, 500 V, 250 V (d.c.)

Measuring range
10 kΩ - 1000 MΩ on all ranges

Terminal voltage on open circuit (d.c.):
-0% +25% of rated voltage

Short circuit current:
2 mA +0% –50%

Test current on load:
>1 mA at minimum pass values of insulation as specified in BS7671, HD384, IEC364 and VDE0413 part 1

Accuracy (at 20° C)
MIT220, 230:
±3% of reading ±2 digits up to 10 MΩ
±5% of reading ±2 digits up to 100 MΩ
±30% of reading up to 1000 MΩ

**Terminal characteristics**

**Continuity ranges**
Measuring range:
0.01 Ω - 100.0 Ω
(0 -50 Ω on analogue scale)

Open Circuit Voltage: 5 V ± 1 V

Short Circuit Current:
205 mA ± 5 mA (0-10 Ω)
> 20 mA (10 - 100 Ω)

Accuracy (at 20° C)
MIT220, 230:
±0.01 Ω to 9.99 Ω ± 3% ± 2 digits
10.0 Ω to 99.9 Ω ± 5% ± 2 digits

Zero offset adjust:
MIT220, 230:
0 to 9.99 Ω

Continuity buzzer
MIT220, 230:
Operates at < 5 Ω

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**Default voltmeter**

MIT220, 230:
> 25 V ac or dc, is applied display will operate as a voltmeter.

**Test inhibit**

If more than 50 volts is detected, testing will be inhibited.

**Range:**

25 V to 600 V @ 50/60 Hz & dc

**Accuracy:**

25 V to 450 V ac/dc ± 1% ± 1 digit

450 V to 600 V ac ± 2% ± 1 digit

**Auto power down**

Auto power down operates after 10 minutes if left in standby mode.

**Temperature and humidity**

Operating range:
-10°C to + 55°C

Operating humidity:
93% R.H. at +40°C max.

**Storage range:**

-25°C to + 65°C

**Environmental protection:**

IP40

**Fuses**

Terminals:
500 mA (F) 600 V, 32 x 6 mm Ceramic HBC 50 kA minimum.

Display shows if fuse is ruptured.

**Safety**

Meets the requirements of EN61010-1 Cat III 600V phase to earth.

**Automatic discharge**

After an insulation test the item under test will be discharged automatically. Any voltage present will be indicated on the display so that the discharge can be monitored.

**Power supply**

Battery 6 x 1,5 V cells IEC LR6 type(AA alkaline).

Rechargeable NiMH cells may be used.

Battery condition is constantly shown on the display as a four-section bar-graph.

**Battery life**

3000 consecutive tests (5 seconds per test) on any test using 2Ah batteries.

**Weight**

All units: 530gms ±5%

**Dimensions**

All units: 195 x 98 x 40mm

**E.M.C**

In accordance with IEC61326 including amendment No.1
## ORDERING INFORMATION

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<td>MIT220-EN</td>
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<tr>
<td>250 V/500 V/1000 V Insulation and continuity tester</td>
<td>MIT230-EN</td>
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### Included accessories

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<td>Lead set with prods and dips</td>
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### Optional accessories

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<td>Fused lead set</td>
<td>6220-789</td>
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<td>Removable protective holster</td>
<td>5410-346</td>
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