MIT300 Series Insulation and Continuity Testers



- Extremely easy to use
- Tough rubber armoured case
- Self contained protective cover
- Live circuit warning
- Weatherproof to IP54
- Intelligent Safety System for protection
- Result storage and downloading
- Download software included
- USB interface

DESCRIPTION

The Megger MIT300, MIT310 and MIT320 all feature the popular Megger digital/analog display. Large 20mm high characters provide very clear readout, combined with an analog arc for the feel of an analog instrument, with a true analog response.

The Megger MIT310A has a moving coil display for those who prefer a real moving needle. Black decals on a white background give high contrast, even in poor light conditions.

Tough:

- Designed to take the bashing that testers receive on site, the Megger MIT insulation testers are rubber armoured.
- The rigid display cover folds right out of the way during testing and locks down to protect the display when it is finished.

Simple to use:

- No buried functions mean it is obvious how to use the Megger MIT.
- Colour coded ranges help test selection, reducing testing time and help with fault location.
- A user guide in the lid provides all the basic information.

Hands free use:

• It hangs comfortably around the neck for hands-free use because the instrument is carefully balanced.

- Continuity and buzzer testing starts automatically on connection to the circuit.
- Insulation tests being activated from the instrument or the switch probe, supplied with MIT320 and MIT330 (not suitable for the use with the MIT300 or MIT310).

Backlighting:

• Both the display and the range selected can be read in the dark because the MIT 320/330 has a backlit display and range selection.

Safety features: To protect the user and the tester from incorrect use the MIT series all have an extensive range of features known as the Megger Intelligent Safety System including:

- Safety Interlock prevents unsafe connection of test leads
- Safe contact detectors Even if the MIT is connected to a live circuit whilst on continuity setting the tester will remain safe and not be damaged.
- Live voltage warning alerts the operator when a circuit voltage over 25 V exists.
- Safety lockout Prevents the test from operating when the circuit voltage is >50 V.
- Continuity check prevents a continuity test or buzzer test on a live circuit.

All the MIT instruments meet or exceed the UK and International Wiring Regulations, including requirements of BS7671 and VDE 0413 parts 1 and 4, HD 384, IEC 364, NFC15-100, NEN3140, ES59009 and EN 61557.

In addition the range meets the requirements of IEC 61010-1 for safe connection to a 440 V Installation Category III supply (600 V Phase to Earth).

The MIT330 additionally offers the facility to save test results to internal memory. Over 1000 result can be saved on site, and downloaded to a computer when convenient. Data is stored in non-volatile memory, being retained when the instrument is switched off or batteries are exhausted.

A Job reference number can be selected for a range of results, allowing separate locations to be tested with the same tester and easily separated when downloaded.

A memory bar graph acts as a 'Fuel Gauge' showing how much memory has been used.

Test results are downloaded to CSV (Coma Separated Variable) spreadsheets, and can be imported into Microsoft Excel. If certificates or reports are required, the results can be downloaded directly into Megger Powersuite Professional with a range of features for creating professionally finished documentation.

APPLICATIONS

The MIT300 series has applications in all aspects of domestic, commercial and industrial electrical contracting, building maintenance, testing, inspection and servicing.

Combining both Insulation testing and continuity testing, each instrument caters for all aspects of fixed wiring installations.

Further applications can be found in panel building, testing of motors, generators, switchgear and power tools, street lighting and low volume manufacturing environments etc.

The MIT300 range is supplied with a full 3 year warranty.

SPECIFICATIONS

Insulation ranges

Nominal Test Voltage

MIT310, 310A, 320, 330 MIT300

Measuring Range

All instruments Short Circuit Current Test Current on Load

Accuracy (at 20° C)

MIT300, 310, 320, 330

MIT310A

Continuity ranges

Measuring Range:

Open Circuit Voltage: Short Circuit Current: MIT300, 310, 320, 330 MIT310A 1000 V, 500 V, 250 V (d.c.) 500 V, 250 V (d.c.)

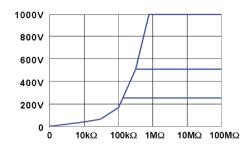
10 k Ω - 999 M Ω on all ranges 1.5 mA nominal 1 mA at min. pass values of insulation (as specified in BS7671, HD 384 and IEC 364)

 $\pm 3\%$, ± 2 digits up to 10 MΩ, $\pm 5\%$ up to 100 MΩ, $\pm 30\%$ up to full scale <2.5% of scale length (or 30% of reading 200 kΩ to 10 MΩ)

0.01 Ω - 99.9 Ω (0 -50 Ω on analog scale) 5 V ±1 V

205 mA +10 mA –5 mA 200 - 250 mA

Terminal Characteristics



 $\pm 3\% \pm 2$ digits

0 - 9 Ω

0 - 0.5 Ω

±2.5% of scale length (or 30% of

reading 0.2 Ω to 2 k Ω)

Accuracy (at 20° C)

MIT300, 310, 320,330 MIT310A

Zero Offset Adjust: MIT300, 310,320, 330 MIT310A

Continuity Buzzer

 MIT300, 310
 Operates at < 5 Ω

 MIT320, 330
 Adjustable 1 Ω to 20 Ω

 MIT310A
 Operates at < 5 Ω

 MIT300, 310, 320, 330
 Response time <20 ms</td>

 MIT310A
 Response time <100 mS</td>

Resistance range MIT320/330

(can be used for diode testing))
Measuring Range:	10 Ω - 1 MΩ
Open Circuit Voltage:	5 V
Short Circuit Current:	1.5 mA
Accuracy (at 20° C):	$\pm 5\%$ ± 2 digits up to 100 $\mathrm{k}\Omega$
Measuring Range (MIT310A) 0	- $2k\Omega$ (refer to continuity)

Voltage range

Measuring Range:

Accuracy (at 20° C) MIT300, 310, 320, 330

MIT310A Temperature coefficient:

Default voltmeter

All modes except off MIT310, 320, 330

MIT300 MIT310A Test inhibit:

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

AutoPower Down (MIT310, 320, 330)

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

Temperature and humidity

Operating Range: Operating Humidity: Storage Range:

Test Result Storage (1000 results)

lest Result Storage (1000 results)			
Job Number	255 locations		
Distribution Board no.	99 locations		
Circuits	99 locations		
Phases	P1, P2, P3		
Last recorded result may be a	recalled to the display.		
All data can be downloaded	to a PC using Download Manager		
(supplied) or Megger Powers	suite Professional of Windows		
software			

0 - 600 V a.c. (50/60 Hz) or d.c.

d.c. or a.c. (50/60 Hz): ±1%, ±2 digits ±2.5% of scale length for 50/60Hz <0.1% per °C on all ranges.

>25 V a.c. or d.c. is applied display will operate as a voltmeter.

will operate as a voltmeter. Beeps and flash 'V' on the display All modes including OFF

14°F to 140°F (-10°C to +60°C)

-13°F to +158°F (-25°C to +70°C)

93% R.H. at +40°C max.

MIT300 SERIES BENEFITS INCLUDE:	MIT300	MIT310	MIT310A Analog	MIT320	MIT330
Insulation testing					
250 V				-	
500 V					
1000 V					
Test range	999 MΩ	999 MΩ	999 MΩ	999 MΩ	999 MΩ
Insulation limit alarm (0.01 M Ω to 999 M Ω)					
Continuity testing					
Continuity to 100 Ω		•			
Continuity buzzer					
Lead null to 90hms			0.5 Ω		
Adjustable buzzer 1 to 20 Ω					
Audible buzzer disable					
Voltage measurement					
Volts AC/DC		600 V	600 V	600 V	600 V
Resistance measurement					
10 Ω to 1 M Ω range					
Features					
Voltage warning					
Default voltmeter			-		
Backlit display				-	
Backlight selector ranges					
Locking test button	-	-	-	-	
Auto powerdown					
Switched test probe					
IP54 weatherproof		•			
Accepts rechargeable batteries					
1000 Test result storage					
Downloading					
Calibration certificate		•			
3 year warranty					

Communications

USB interface

Environmental Protection

IP54 Fuses

Terminals 500 mA (F) 600 V, 32 x 6 mm Ceramic HBC 10 kA minimum.

Display shows if fuse is ruptured.

Safety

Meets the requirements of IEC61010-1 Cat III 600 V 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: 8 x 1.5 V cells IEC LR6 type(AA alkaline). Rechargeable NiCd or NiMH cells may be used. Battery condition is constantly shown on the display as a four-section bargraph.

Battery Life

5000 consecutive tests (5 seconds per test) on any test using 2Ah batteries.

Weight

All units: 980 gms

Dimensions

All units: 203 x 148 x 78 mm (8 x 5.7 x 3.2 inches)

E.M.C.

In accordance with IEC61326 including amendment No.1

ORDERING INFORMATION

Item (Qty)	Cat. No.	ltem (Qty)
MIT300 250 V , 500 V insulation tester	MIT300-EN	Included Accessories
MIT310 250 V, 500 V, 1000 V insulation tester	MIT310-EN	Test lead set and crocodile
MIT310A 250 V, 500 V,1000 V analog		SP4F Switch probe (MIT320
insulation tester	MIT310A-EN	Optional Accessories
MIT320 250 V, 500 V, 1000 V insulation tester	MIT320-EN	Fused test lead set
MIT330 250 V, 500 V, 1000 V insulation tester	MIT330-EN	PowerSuite Pro-Lite 16th

ltem (Qty)	Cat. No.
Included Accessories	
Test lead set and crocodile clips	6220-779
SP4F Switch probe (MIT320 and MIT330 only)	6220-809
Optional Accessories	
Fused test lead set	6220-789
PowerSuite Pro-Lite 16th	6111-695

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