Megger Insulation Testers – 5 & 10kV For Industrial & Utility Applications







- **Robust and reliable testers for high performance in the real-world**
- **Cat IV safety ratings**
- **High current and high noise rejection options**
- **Memory storage, recall and downloading via USB**
- **A full range of diagnostic tests**

Megger invented the Insulation Tester in the 1890s and still offers the most capable range to cover your applications.

The **MIT series** is designed for Industrial and Power Distribution applications, with an unrivalled combination of practicality, reliability and high test performance in real-world situations.



The **S1 series** is specially designed for Utilities, particularly in Transmission and Generation applications, where even higher electrical noise and long cable runs are encountered.

Both series are housed in a rugged polypropylene case, with full protection to IP65 when being transported.

New MIT Series: MIT515, MIT525, MIT1025 for Industrial & Power Distribution

The New MIT 515 instrument can be used to perform both simple Go-No Go insulation tests and basic diagnostic insulation tests such as Polarisation Index (PI).

There are two new advanced models (MIT 525, MIT1025) with memory and diagnostic insulation testing. The 10 kV MIT1025 is suited to more rigorous testing of higher voltage equipment. The 5kV models

test to 10TΩ while the 10kV models will test to 20TΩ and all instruments have a fully specified guard terminal/circuit to allow accurate results in a wide range of test situations.



You can test from battery or from AC power and benefit from a long battery life and a rapid recharge time.

To assist with storing and trending results, both the MIT525 and MIT1025 include memory and download to PC via USB, as well as additional diagnostic tests, such as Step Voltage (SV) and ramp test.

S1 Series: S1-552/2, S1-554/2, S1-1052/2, S1-1054/2 for Power Utilities

The S1 series instruments will test simple and diagnostic insulation tests in a wide range of utility environments, with an unrivalled specification for noise immunity and output power.

There are two 5 kV models and two 10kV models, all with high output power rated at 5mA to deal with capacitive loads.



In addition the models S1-554 and S1-1054 also have increased electrical noise immunity to deal with the most challenging substation environments,

All S1 instruments have a full set of diagnostic tests, including PI and SV and can store and download results through their USB ports.

Legacy products:MIT510, MIT520, MIT1020

These highly capable products are still available for users who have specified them in their procedures and approval lists.

Megger

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Specifications

Feature	New Industrial Range			Utility Range				Legacy products		
	MIT515	MIT525	MIT1025	S1-552/2	S1-554/2	S1-1052/2	S1-1054/2	MIT510	MIT520	MIT1020
Output voltage maximum (kV)	5	5	10	5	5	10	10	5	5	10
Resistance range max	10TΩ	10TΩ	20TΩ	15TΩ	15TΩ	35TΩ	35TΩ	15TΩ	15TΩ	35TΩ
Line Power	■	■	■	■	■	■	■	■	■	■
Battery Power	■	■	■	■	■	■	■	■	■	■
Battery life - single charge (hrs)	6	6	4.5	6	6	4	4	6	6	4
Battery charge time (hrs)	2.5	2.5	2.5	14	14	14	14	14	14	14
Weight - no leads (kg)	4.5	4.5	4.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1
Size (cm)	32x29x18	32x29x18	32x29x18	36x31x19	36x31x19	36x31x19	36x31x19	36x31x19	36x31x19	36x31x19
Clear LCD Display	■	■	■	■	■	■	■	■	■	■
Digital/Analogue display	■	■	■	■	■	■	■	■	■	■
Voltage output measurement	■	■	■	■	■	■	■	■	■	■
Default voltmeter (on terminals)	■	■	■	■	■	■	■	■	■	■
Voltmeter function	■	■	■							
Accuracy	±5%≤1TΩ ±20% to 10TΩ	±5%≤1TΩ ±20% to 10TΩ	±5%≤2TΩ ±20% to 20TΩ	±5%≤1TΩ ±20% to 10TΩ	±5%≤1TΩ ±20% to 10TΩ	±5%≤2TΩ ±20% to 20TΩ	±5%≤2TΩ ±20% to 20TΩ	±5%≤1TΩ ±20% to 10TΩ	±5%≤1TΩ ±20% to 10TΩ	±5%≤2TΩ ±20% to 20TΩ
Insulation										
Short circuit current	3mA	3mA	3mA	5mA	5mA	5mA	5mA	3mA	3mA	3mA
Auto IR	■	■	■	■	■	■	■	■	■	■
Auto PI	■	■	■	■	■	■	■		■	■
Auto DAR	■	■	■	■	■	■	■		■	■
Auto SV		■	■	■	■	■	■		■	■
Auto DD		■	■	■	■	■	■		■	■
Auto SV		■	■	■	■	■	■		■	■
Ramp test		■	■							
Breakdown detection	■	■	■	■	■	■	■	■	■	■
Burn mode	■	■	■	■	■	■	■		■	■
Elapsed Test Indic. 99 mins	■	■	■	■	■	■	■	■	■	■
Programmable test duration	99 mins	99 mins	99 mins	99 mins	99 mins	99 mins	99 mins	99 mins	99 mins	99 mins
Leakage Current Display	■	■	■	■	■	■	■	■	■	■
Capacitance	■	■	■	■	■	■	■	■	■	■
Time Constant	■	■	■	■	■	■	■	■	■	■
Real Time Data Output		■	■	■	■	■	■		■	■
Data Storage		■	■	■	■	■	■		■	■
Variable test voltage	■	■	■	■	■	■	■		■	■
Lock Voltage Range	■	■	■							
Software filtering					■		■			
Insulation Alarms		■	■	■	■	■	■		■	■
USB device interface		■	■	■	■	■	■		■	■
USB host interface										
Power DB Lite		■	■	■	■	■	■		■	■
Display Backlight	■	■	■	■	■	■	■	■	■	■
Temp. recording (manual entry)		■	■							
Noise rejection	3mA	3mA	3mA	3mA	4mA	3mA	4mA	2mA	2mA	2mA
Altitude	3000m	3000m	3000m	2000m	2000m	2000m	2000m	2000m	2000m	2000m
CAT IV 600V	■	■	■	■	■	■	■	■	■	■
Accurate Guard terminal	■	■	■	■	■	■	■	■	■	■

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