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Megger.

MIT515, MIT525, MIT1025, MIT1525 5 kV, 10 kV, 15 kV DC Insulation Resistance Testers



- 30 TΩ maximum resistance
- Unique dual-case design provides additional user protection
- Operate from battery or AC source
- Rapid charge Li-ion battery
- Safety rated CATIV 1000 V to 3000 m (15 kV)
- Advanced memory with time/date stamp

DESCRIPTION

Megger's range of DC insulation testers MIT515, MIT525, MIT1025 and MIT1525 are targeted at original equipment manufacturers and industrial companies. The top of the range MIT1525 performs insulation resistance tests up to 15 kV with a 30 T Ω maximum resistance and an accuracy of ±5% to 3 T Ω . The MIT515 offers IR, DAR and PI functions but has no memory functionality. MIT525, MIT1025 and MIT1525 have a full suite of test modes as well as onboard memory and the ability to stream data/download data to a PC/laptop.

Instrument productivity is a focus of the new MIT range which offers rapid charge batteries and operation from an AC source if the batteries are dead. Rapid charge batteries enable > 60 minutes testing after a 30 minute charge.

Safety is not compromised on the MIT range with all terminals rated to CATIV 600 V to 3000 m (5 kV and 10 kV) or CATIV 1000 V to 3000 m (15 kV). A range of 5 kV and 10 kV test leads are available plus dedicated 15 kV test leads which are double insulated with clips designed for 15 kV creepage paths. The 15 kV leads are supplied in a backpack. Depending on local procedures or the results of a risk assessment, suitably rated HV gloves and other personal equipment may be a requirement while testing.

The MIT range share dual case design which includes a tough outer case to protect the tester from knocks/drops and an inner fire retardant case. The IP rating is IP 65 case closed eliminating moisture and dust ingress.

An intuitive user interface ensures no lost time remembering how to use the tester. Simplicity of operation is achieved with two rotary switches and the large backlight display which enables multiple results to be displayed simultaneously. A graphical quick start guide is provided inside the lid to assist first time users.

Five preset voltage ranges are provided in insulation test mode, plus a user settable lock voltage range. Voltage can be selected in 10-V increments to 1 kV and 25-V increments above 1 kV. Preconfigured diagnostic tests include Polarization Index (PI), Dielectric Absorption Ratio (DAR), dielectric discharge (DD), Step Voltage (SV) and ramp test. The ramp function gradually increases voltage up to a selected level while graphing current vs. voltage. Graphs can then be downloaded, or streamed real time, to either the Power DB Lite software supplied or the optional Power DB software. Graphs can then be compared to example curves in IEEE 95-2002 to reveal a variety of faults difficult to detect otherwise. Small defects can be easily detected without risking the sudden large voltage increments produced by a Step Voltage test. Monitoring the developing graph during test enables the operator to terminate prior to breakdown, thereby reducing the possibility of damage to already flawed insulation. These units are particularly informative on polyester, asphalt and epoxy-mica insulations. They can also test voltage suppression devices.

Advanced memory storage includes time/date stamping of results, logging of data and recall of results to screen. A fully isolated USB interface is used for safe transfer of data to Megger's asset management software; PowerDB Pro, Advanced and Lite packages. Test leads are double insulated with clamps rated at 3 kV equivalent to 6 kV single insulation for the medium clip leadset and 5 kV equivalent to 10 kV single insulation for the large clip. The 15 kV leadset is insulated to 15 kV.

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FEATURES AND BENEFITS

- Insulation resistance up to 30 TΩ @ 15 kV, 20 TΩ @ 10 kV, 10 TΩ @ 5 kV enables installation testing and long-term trending of higher value apparatus, typically above 1 TΩ.
- High altitude operation up to 3000 m while maintaining CATIV 600
 V (5 kV and 10 kV) and CATIV 1000 V (15 kV).
- 5% accuracy all the way up to 1 TΩ @ 5 kV, 2 TΩ @ 10 kV, and 3 TΩ @ 15 kV ensures highest accuracy where it matters most.

Note: the majority of measurement in substation environments are typically above 100 G $\!\Omega.$

- IR, timed IR, DAR, PI, DD, SV and ramp tests maximize diagnostic testing capability.
- 3 mA short circuit current with unique max power regulations technology ensures maximum transfer whatever the load until selected voltage is reached.
- Noise filter rejects up to 3 mA (5 kV and 10 kV) and 6 mA (15 kV) noise for effective operation in electrically noisy environments.
- Li-ion battery allows up to 6 hrs continuous testing @ 5 kV with a 100 MΩ load; battery meets IEC 62133.
- Large backlit LCD, convenient for use in ambient lighting, clearly shows analog and digital readings.
- Dedicated voltmeter function (30 V to 660 V) allows the user to check for induced volages.
- Smaller size and lighter weight allows easier transport and use without compromising performance.
- Unique dual case design allows for fire-retardant protection while maintaining ruggedness.
- High-quality, flexible silicon test leads meet safety regulations of IEC 61010-31:2008 while ensuring measurement accuracy.
- Timed IR plus PI, DAR, DD, SV and ramp tests maximize diagnostic testing capability.
- Operate from line power even if the battery is fully discharged (charges while operating).
- Two and one-half hour full battery charge time (one-half hour charge for one hour testing) significantly increases productivity.
- Up to six hours continuous testing (5 kV) on a single battery charge.
- Industry best guard terminal performance to insure highest accuracy of measured values.
- Enhanced driver technology provides plug-and-play when connected to the internet. No tedious and potentially interruptive setup procedures.
- Rotary switch operation for easy, intuitive field use.
- Locking test leads provide additional safety.
- Date and time-stamped test results reduce the risk of error in result interpretation.

APPLICATIONS

The Insulation Resistance (IR) test is a quantitative test which indicates the effectiveness of a product's electrical insulation. Applications include cables, transformers, motors/generators, circuit breakers and bushings.

The units are designed for testing the insulation of high-voltage electric equipment. Their wide voltage range also allows applications for low-voltage equipment. The test techniques on the instruments provide valuable diagnostic information.

All four instruments test the insulation resistance of:

- High-voltage power cables and high-voltage buses
- Large motor/generator windings
- Line and substation transformers

The MIT525, MIT1025 and MIT1525 also perform spot tests, step voltage tests, dielectric discharge tests, ramp tests, and dielectric absorption tests for the following applications:

- Acceptance testing at installation to check conformance to specifications.
- Routine preventive/predictive maintenance testing after installation.
- QA testing as part of the manufacturing process.
- Diagnostic testing to isolate faulty components for repair.

IEEE Standard 43:2000

With its higher voltage testing capability, the MIT1025 is the perfect everyday work tool for manufacturers, users and maintainers of rotating machinery. Designed in accordance with the requirements of IEEE43:2000, the MIT1025 is ideal for measuring the insulation resistance of armature and field windings in rotating machines rated 1hp (750 W) or greater. The standard applies to synchronous, induction and dc machines as well as synchronous condensers.

In March 2000, the IEEE-SA Standards Board approved a revision of IEEE Std 43-1974 by the Electric Machinery Committee of the IEEE Power Engineering Society. This revision is IEEE Std 43-2000, the

"IEEE Recommended Practice for Testing Insulation Resistance of Rotating Machinery." Following are the testing recommendations from the standard:

• Test voltages up to 10 kV are recommended for windings rated greater than 12 kV.

• Both the insulation resistance and the polarization index tests are recommended.

MIT515, MIT525, MIT1025, MIT1525 5 kV, 10 kV, 15 kV DC Insulation Resistance Testers

15 kV Insulation Testing

A 15 kV insulation test is recommended for higher voltage electrical equipment. The Pearl reconditioning Standard / NETA MTS1997 defines both the minimum dc test voltage and minimum recommended insulation resistance based on the maximum voltage rating of the equipment being tested. For equipment rated from 35 kV to 69 kV, 15 kV dc test voltage should be used. The minimum recommended insulation resistance is 100 G Ω .

NETA ATS 2007 Section 7.15.1 defines test voltage and minimum insulation resistance for ac induction motors and generators. If the voltage rating of motor's winding is 34.5 kV, a 15 kV dc test voltageshould be used. Again, the minimum recommended insulation resistance is 100 G Ω .

The MIT1525 maintains \pm 5% accuracy up to 3 T Ω , which is well above the minimum recommended insulation resistance level in both standards.

SPECIFICATIONS

Electrical

Maltan tan tan				
Voltage input range:				
5 kV, 10 kV	90-264 V rms, 47-63 Hz, 100VA			
15 kV	90-264 V rms, 47-63 Hz, 200VA			
Battery:	B11.1 V, 5.2Ah Li-ion batteries, meet			
	IEC 62133:2003, MIT1525 has 2 battery			
	packs.			
Battery life MIT515, MIT525:	6 hours (typical) continuous testing			
	at 5 kV with a 100 M Ω load			
Battery life MIT1025:	4.5 hours (typical) continuous testing			
	at 10 kV with a 100 M Ω load			
Battery life MIT1525:	4.5 hours (typical) continuous			
	testing at 15 kV with a			
	100 MΩ load			
Battery charge time:	2.5 hours from deep discharge,			
	2 hours normal discharge			
Test voltages MIT515, MIT525	5: 250 V, 500 V, 1000 V, 2500 V,			
	5000 V, VI			
Test voltages MIT1025:	500 V, 1000 V, 2500 V, 5000 V,			
	10,000 V, VA			
Test voltages MIT1525:	1000 V, 2500 V, 5000 V,			
	10,000 V, 15000 V, V🗈			
Lock test voltage Vi:	40 V to 1 kV in 10 V steps,			
	1 kV to 5 kV in 25 V steps,			
	5 kV to 15 kV in 25 V steps			
Voltage o/p accuracy:	+4%, -0%, ±10 V nominal test			
	voltage at $1G\Omega$ load (0°C to 0°C)			
Resistance Range:				
	10 k to 10 TΩ @ 5 kV			
	10 k to 20 TΩ @ 10 kV			
	10 k to 30 TΩ @ 15 kV			
Accuracy (23 °C) from 1 MΩ to	0:			
MIT515, MIT525	±5% to 1 TΩ, ±20% to 10 TΩ			
MIT1025	±5% to 2 T Ω , ±20% to 20 T Ω			
MIT1525	±5% to 3 TΩ, ±20% to 30 TΩ			

Centrally positioned guard				
	resistance down to 250 $k\Omega$ with			
	a maximum additional resistance			
	error of 1% with a 100 M Ω load.			
Display range analog:	100 kΩ to 10 TΩ			
Display range digital:	10 kΩ to 30 TΩ			
Short circuit current:	3 mA @ 5 kV, 10 kV, 15 kV			
Insulation alarm:	100 kΩ to 10 GΩ			
Capacitor charge:	< 3 s/µF to 5 kV, < 5 s/µF to			
J	10 kV, < 7,5 s/uF to 15 kV			
Capacitor discharge:	5 kV to 50 V :< 120 ms/µF			
and a second sec	10 kV to 50 V :< 250 ms/µF			
	15 kV to 50 V :< 3500 ms/µF			
Capacitance range (> 500 V				
	measurement voltage)			
Capacitance accuracy (23 °C	3			
Current measurement range				
Current measurement range				
Interference (noise) rejectio				
	3 mA from 450 V to 5 kV			
MIT515, MIT525				
MIT1025	3 mA from 960 V to 10 kV			
MIT1525	6 mA from 2100 V to 15 kV			
Voltmeter range:	30 V to 660 V ac or dc,			
	45Hz – 65Hz			
Voltmeter accuracy:	±3%, ±3V			
Timer range:	Up to 99 minutes 59 seconds,			
	15 second minimum setting			
Memory capacity:	5.5 hours logging @ 5 sec intervals			
Test regimes:	IR, IR(t), DAR, PI, SV, DD, ramp test			
Interface:	USB type B (device)			
•				
Interface:	USB type B (device)			
Interface: Real time output: Environmental	USB type B (device)			
Interface: Real time output: Environmental Altitude:	USB type B (device) 1 Hz output readings (V, I, R)			
Interface: Real time output: Environmental Altitude: Operating temperature:	USB type B (device) 1 Hz output readings (V, I, R) 3000 m -4° F to +122° F (-20° C to 50° C)			
Interface: Real time output: Environmental Altitude: Operating temperature: Storage temperature:	USB type B (device) 1 Hz output readings (V, I, R) 3000 m			
Interface: Real time output: Environmental Altitude: Operating temperature:	USB type B (device) 1 Hz output readings (V, I, R) 3000 m -4° F to +122° F (-20° C to 50° C) -13° F to +149° F (-25° C to 65° C)			
Interface: Real time output: Environmental Altitude: Operating temperature: Storage temperature: Humidity: Ingress protection:	USB type B (device) 1 Hz output readings (V, I, R) 3000 m -4° F to +122° F (-20° C to 50° C) -13° F to +149° F (-25° C to 65° C) 90% RH non-condensing at 40 °C			
Interface: Real time output: Environmental Altitude: Operating temperature: Storage temperature: Humidity: Ingress protection: Safety	USB type B (device) 1 Hz output readings (V, I, R) 3000 m -4° F to +122° F (-20° C to 50° C) -13° F to +149° F (-25° C to 65° C) 90% RH non-condensing at 40 °C IP65 (lid closed), IP40 (lid open)			
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Interface: Real time output: Environmental Altitude: Operating temperature: Storage temperature: Humidity: Ingress protection: Safety CAT Rating: EMC: Dimensions MIT515, MIT525, MIT1025	USB type B (device) 1 Hz output readings (V, I, R) 3000 m -4° F to +122° F (-20° C to 50° C) -13° F to +149° F (-25° C to 65° C) 90% RH non-condensing at 40 °C IP65 (lid closed), IP40 (lid open) CATIV 600 V to 3000 m (5 kV, 10 kV) CATIV 1000 V to 3000 m (15 kV) Meets the requirements of IEC 61010-1 and IEC61326-1 12 in. L x 11 in. W x 7 in. H (315 mm L x 285 mm W x 181 mm H)			
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Interface: Real time output: Environmental Altitude: Operating temperature: Storage temperature: Humidity: Ingress protection: Safety CAT Rating: EMC: Dimensions MIT515, MIT525, MIT1025 MIT1525 Weight	USB type B (device) 1 Hz output readings (V, I, R) 3000 m -4° F to +122° F (-20° C to 50° C) -13° F to +149° F (-25° C to 65° C) 90% RH non-condensing at 40 °C IP65 (lid closed), IP40 (lid open) CATIV 600 V to 3000 m (5 kV, 10 kV) CATIV 1000 V to 3000 m (15 kV) Meets the requirements of IEC 61010-1 and IEC61326-1 12 in. L x 11 in. W x 7 in. H (315 mm L x 285 mm W x 181 mm H) 14 in. L x 12 in. W x 8 in. H (360 mm L x 305 mm W x 194 mm H)			
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Model MIT1025 Panel



- 1. Positive (+) terminal
- 2. GUARD terminal
- 3. Negative (-) terminal
- 4. USB device interface
- 5. Four arrow buttons and OK button
- 6. TEST button with associated HV warning lamp
- 7. Backlight button
- 8. Operational rotary switch
- 9. Save button on MIT525 and MIT1025
- 10. Test mode rotary switch
- 11. LED indicated line power / mains
- 12. Display
- 13. Power socket

MIT515, MIT525, MIT1025, MIT1525 5 kV, 10 kV, 15 kV DC Insulation Resistance Testers

	Product Comparison Guide for 5/10/15-kV Insulation Testers					
	Model Number	MIT515-US	MIT525-US	MIT1025-US	MIT1525-US	
	Cat. Number	1001-936	1001-940	1001-944	1002-909	
Display	Analog/Digital	•				
Power Supply	Line power	•	•	•	•	
rower Suppry	Rechargeable	•			•	
Lock test voltage VL			•			
	15.0 kV				-	
	10.0 kV					
	5.0 kV					
	2.5 kV					
	1.0 kV					
fest Voltage	500 V					
	250 V					
-	10 V steps 40 V to 1 kV 25 V steps 1 kV to max test voltage 1 kV to 15 kV in 25 V steps for 15 kV					
	10 V steps 100 V to 1 kV 25 V steps 1 kV to max test voltage		•	-		
	Max. reading	10 TΩ	10 ΤΩ	20 ΤΩ	30 TΩ	
	Min. reading	10 kΩ	10 kΩ	10 kΩ	10 kΩ	
Neasurements	Voltage				•	
	Capacitance and time constant					
	Leakage current				-	
	Auto IR			•		
	Auto Pl					
	Auto SV				•	
lest Types	Auto DD					
	Auto DAR				-	
	Auto ramp test			•	•	
	Safety rating	CAT IV 600 V	CAT IV 600 V	CAT IV 600 V	CAT IV 1000 \	
	Timer control				-	
	Timer display				-	
	3mA short circuit currents					
	USB output (cable included)			•	-	
	Calibration certificate included				-	
	IP65 rating case closed			•		
Other Features	Alarm limit mode				-	
	Compatible with Power DB					
	User programmable lock voltage range		•	-	-	
	Real time clock			•		
	Battery charge time max (hours)	2.5	2.5	2.5	2.5	
	Noise rejection	3 mA	3 mA	3 mA	6 mA	
	Guard terminal performance		or guarding 500 k Ω le			

Megger.

MIT515, MIT525, MIT1025, MIT1525 5 kV, 10 kV, 15 kV DC Insulation Resistance Testers





CATIV 1000 V rating on MIT1525 unit's terminals, shown above. The MIT515, MIT525, and MIT025 are rated CATIV 600 on all terminals.



Easy-to-read rotary switch buttons for intuitive field use.



Large backlit LCD shows multiple parameters simultaneously.

ORDERING INFORMATION						
ltem (Qty)	Cat. No.	ltem (Qty)	Cat. No.			
MIT515-US	1001-936	HV test lead sets 5kV, 10kV				
MIT525-US	1001-940	5 m leadset x 3, large insulated clips*	1002-645			
MIT1025-US	1001-944	8 m leadset x 3, large insulated clips	1002-646			
MIT1525-US	1002-909	10 m leadset x 3, large insulated clips 1002				
Included Accessories		15 m leadset x 3, large insulated clips	1002-648			
Power lead	25970-002	5 m leadset x 3, medium insulated clips*	1002-641			
USB cable (MIT525,1025 only)	25970-041	8 m leadset x 3, medium insulated clips	1002-642			
USB Cable (MIT1525 only)	90004-411	10 m leadset x 3, medium insulated clips	1002-643			
Lid Pouch (MIT515, 525, 1025 only)	1005-623	15 m leadset x 3, medium insulated clips	1002-644			
Accessory Pouch (MIT1525 only)	6320-244	3 m leadset x 3, bare compact clips	8101-181			
PowerDB Lite software		8 m leadset x 3, bare compact clips	8101-182			
Product Information CD	2002-453	15 m leadset x 3, compact bare clips	8101-183			
3 m leadset x 3, medium insulated clips	1002-531	* These test leads may also be supplied in non-standard lengths				
3 m leadset x 3, large insulated clips (MIT1025 only)	1002-534	to suit a particular application / requirement. Please contact Megger for a quotation; minimum order quantities may apply.				
3m leadset x 3, large 15 kV insulated clips	1002-949	Screened HV test lead sets				
(MIT1525 only)		3 m, 5 kV screened un-insulated small clips	6220-835			
Optional Accessories		15 m, 5 kV screened un-insulated small clips	6311-080			
1 kV test lead sets		3 m, 10 kV screened un-insulated small clips	6220-834			
Fused test probe and clip lead set	1002-913	10 m, 10 kV screened un-insulated small clips	6220-861			
Control circuit test lead set	6220-822	15 m, 10 kV screened un-insulated small clips	6220-833			
		Other				
		CB101, 5 kV Calibration Box	6311-077			
		Calibration Certificate - CB101	1000-113			

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UNITED STATES

OTHER TECHNICAL SALES OFFICES

Dallas USA, College Station USA, Sydney AUSTRALIA, Danderyd SWEDEN, Ontario CANADA, Trappes FRANCE, Oberursel GERMANY, Aargau SWITZERLAND, Dubai UEA, Mumbai INDIA, Durban SOUTH AFRICA, Chonburi THAILAND, Malaga SPAIN

CERTIFICATION ISO

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