

# MIT-4500 series



Suitable for measuring the resistance values of various insulating materials and the insulation resistance of transformers, motors, cables, and electrical equipment

The MIT-4500 series performs excellent testing functions of various insulation resistance parameters and, with its anti-interference ability, can be used to test the insulation resistance of large capacity high voltage electrical equipment and transmission lines in substation with strong induction electric environment. With its clear display screen, large indicators, buttons and switch knob, operation is made incredibly easy even for a first-time user. The test timer automatically records and stores all relevant data and can be uploaded to a computer for further analysis. If you are looking for an instrument with wide measurement range, high resolution, convenient operation, strong, durable, accurate, with reliable and stable performance, then the MIT-4500 series is the right device for you.

## Key Features

- Strong, robust, and portable with an IP65 outer case
- Easy to use with clear markings
- Insulation Resistance Range: 0.01MΩ~50TΩ
- Rated Voltage: 100V~15KV (multi-gear voltage selection)
- Output Short Circuit Current:  $\geq 6\text{mA}$
- Powered by rechargeable lithium battery
- Suitable for insulation resistance testing of cable, motor, generator, transformer, mutual inductor, high voltage switch, arrester, and other large equipment.
- PC connectivity with software

## Applications

- Power
- Telecommunications
- Meteorology
- Computer rooms
- Oil fields
- Mechanical and electrical installation
- Maintenance and power supply departments

# INSULATION RESISTANCE TESTER

## Technical Specifications

MIT-4500 series Insulation Resistance Tester			
Model	MIT-4505	MIT-4510	MIT-4515
Functions	Insulation resistance test, voltage test, current test, capacitance test		
Rated voltage	100V to 5KV	250V to 10KV	500V to 15KV
Test voltage (v)	x (1±10%)		
Insulation resistance range	0.01MΩ ~ 10TΩ (resolution : 0.01MΩ)	0.01MΩ ~ 35TΩ (resolution : 0.01MΩ)	0.01MΩ ~ 50TΩ (resolution : 0.01MΩ)
DC voltage range	0 ~ 1000V (resolution 0.1V)		
AC voltage range	0 ~ 750V (resolution 0.1V)		
DC current	0.1nA ~ 6mA (resolution: 0.1nA)		
Capacitance	10nF ~ 50uF (resolution: 10nF)		
Output short-circuit current	≥6mA		
Absorption ratio and polarization index	YES		
Filter test	10S, 20S, 30S, 40S, 50S		
Data storage	500 groups, "FULL" symbol indicates that storage is full		
Data review / Overflow display / Alarm function / Automatic power-off	YES		
USB interface	Software monitoring, storage data can upload computer, save and print		
Power supply	Rechargeable lithium battery pack 6.2Ah		
Display	4-bit large LCD display (108mm x 65mm) with controllable backlight		
Safety standards	IEC61010-1、IEC1010-2-31、IEC61557-1,5、IEC60529(IP54) pollution grade 2、CAT III 300V		
Standard accessories	HV test line x2 (1.5m each), HV rod x1 (3m), software, battery charger, USB cable, quick-start manual, hard carry case		

## Range & Accuracy

Model	MIT-4505	MIT-4510	MIT-4515
<b>Insulation Resistance Range &amp; Accuracy</b>			
Nominal measuring voltage	100V ; 250V ; 500V ; 1000V ; 2500V ; 5000V	250V ; 500V ; 1000V ; 2500V ; 5000V ; 10KV	500V ; 1000V ; 2500V ; 5000V ; 10KV ; 15KV
Accuracy rated voltage	1±10%	1±10%	1±10%
Range	0.01MΩ ~ 10TΩ	0.01MΩ ~ 35TΩ	0.01MΩ ~ 50TΩ
Best resolution	0.01MΩ	0.01MΩ	0.01MΩ
Accuracy	±3% rdg 5 digits	±3% rdg 5 digits	±3% rdg 5 digits

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# INSULATION RESISTANCE TESTER

## Range & Accuracy (cont.)

Model	MIT-4505	MIT-4510	MIT-4515
<b>DC Voltage Range &amp; Accuracy</b>			
Range	0.1 ~ 1000V		
Resolution	0.1V		
Accuracy	±1.5% rdg ±3 digits		
<b>AC Voltage Range &amp; Accuracy</b>			
Range	0.1 ~ 750V		
Resolution	0.1V		
Accuracy	±1.5% rdg ±3 digits		
<b>DC Current Range &amp; Accuracy</b>			
Range	0.01nA ~ 6mA		
Resolution	0.01nA		
Accuracy	±5.0% rdg ±5 digit		
<b>Capacitance Range &amp; Accuracy</b>			
Range	10nF ~ 50uF		
Resolution	10nF		
Accuracy	±10%rdg±5dg		

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
MIT-4505	Insulation Resistance Tester; 100V to 5KV; 0.01MΩ ~ 10TΩ	464505
MIT-4510	Insulation Resistance Tester; 250V to 10KV; 0.01MΩ ~ 35TΩ	474510
MIT-4515	Insulation Resistance Tester; 100V to 15KV; 0.01MΩ ~ 50TΩ	484515

### Mass

2.75kg/6.0lbs approx. (main unit with battery)

### Dimension

Main unit: 240(L)×188(W)×85(H)mm

### Operating

Temp -10°C to 50°, humidity RH<85%

### Storage

Temp -15°C to 55°, humidity RH<90%

### Services

1-year warranty (subject to product registration with GPS Ltd)  
Please contact for more information.

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