

MAJOR TECH MT577 10kV Diagnostic HV Insulation Tester Instruction Manual

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INTRODUCTION

The MT577 10kV Diagnostic HV Insulation Tester boasts a large LCD screen with a grey backlight display, offering features such as data storage, data access, alarm, and automatic shutdown. In addition, it incorporates the capability to measure DC voltage, AC voltage, absorption ratio, and polarization index of DC voltage. This Insulation Tester is characterized by its extensive measurement range, high resolution, user-friendly operation, portability, accuracy, reliability, and stable performance, coupled with a robust anti-interference ability. Its shockproof, dustproof, and moisture-proof structure makes it an indispensable tool widely utilized in telecommunications, electricity, metrology, computer rooms, oil fields, electromechanical installation and maintenance, and industrial enterprises relying on electricity as their primary power source.

Designed to measure the resistance value of various insulating materials and assess the insulation resistance of transformers, motors, cables, and electrical equipment, the MT577 also offers the flexibility to output various voltage levels with a step-adjusting voltage function.

The Digital Insulation Resistance Meter is constructed using medium and large-scale integrated circuits, ensuring a high output power with six voltage levels. Notably, it provides a DC voltage measurement range spanning 0 – 1000V, an AC voltage measurement range of 0 – 750V, a DC current measurement range from 100pA to 6mA, and a capacitance measurement range of 10nF to 50nF. This comprehensive set of features positions the MT577 as an advanced and essential instrument for professionals engaged in electrical testing and maintenance across a diverse range of applications.

SAFETY RULES AND PRECAUTIONS

The instruction manual must be read and the safety rules and precautions listed in this manual must be strictly observed. Strict attention must be given before you use this instrument in order to avoid possible electric shock or personal injury.

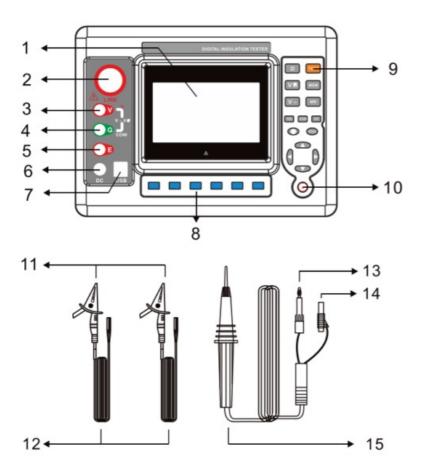
When using this instrument please pay special attention to safety

- This tester conforms to IEC61010 safety specifications for design, production, and test.
- To avoid errors during measuring, do not use high-frequency signal generators like mobile phones etc.
- Pay attention to words and symbols on the tester

- Ensure that the tester and accessories are in good condition before use. There should be no damages or broken parts in the test leads or insulation.
- During measurement, DO NOT touch bare or uninsulated conductors or circuits under measurement.
- Confirm that the connector plug of the test lead has been inserted into the tester's interface correctly.
- Do not measure voltages exceeding the AC and DC Voltage ranges, it will damage the tester.
- Do not measure in flammable or gaseous areas.
- Stop using the tester when there is exposed metal caused by a broken enclosure or test lead during testing.
- Do not keep or store the tester in an area with high-temperature, moisture, or condensation, or under direct daylight radiation for a long period of time.
- When the meter displays battery low voltage symbol " put the meter on charge immediately, otherwise it will lead to measurement errors.
- Do not CHARGE or perform data transmission during the measurement process.
- Pay attention to the measuring range and usage environment stipulated for the safe operation of the tester.
- This meter is only to be used, disassembled, adjusted, and repaired by a qualified and authorized personnel.
- If the tester is damaged during usage, it may be removed from site and sent away to an authorized personnel for repairs or disposal.
- For risk of danger icon in manual " , users must perform safety operations strictly in compliance with the manual content.
- When performing the High Voltage Insulation Test, be sure to connect the red test lead to the object under test before pressing the test button.
- After the test is completed, wait for one minute for the discharge to complete before removing the test leads.
 When removing the test leads, first remove the test leads of the meter and then remove the test leads from the device under test.

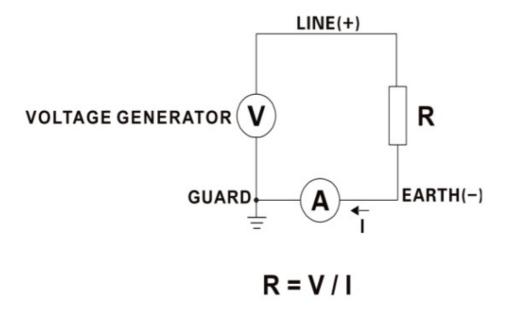
STRUCTURE

- 1. LCD display screen
- 2. LINE interface
- 3. V interface
- 4. GUARD interface
- 5. EARTH interface
- 6. Changer interface
- 7. USB interface
- 8. Voltage select button
- 9. Test button
- 10. Power on/off button
- 11. Security Alligator Clip
- 12. Test line (green, black each 1 (PC)
- 13. High voltage test terminal banana plug into LINE interface
- 14. Shielded cable connector plugged into GUARD interface (no connection required without this connector)
- 15. High voltage test lead



MEASURING PRINCIPLE

Insulation resistance measurement uses a voltage generator to generate voltage (V), applied across the resistor, measuring the current (I) flow across the resistor, and calculating the ground resistance value (R) according to the formula R=V/I.



OPERATION METHOD

Power On/Off

Press the POWER button to turn the Instrument on and off. After the power is turned on, "APO" is displayed in the lower corner. When it is not in operation, it will automatically shut down after 15 minutes.

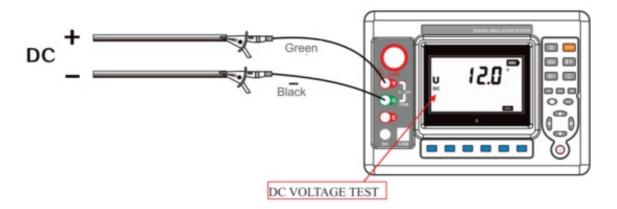
Battery Voltage Check

After powering on, if the LCD shows a low battery voltage sign " it indicates that the battery is running low. Please charge timeously. Sufficient battery power will ensure measurement accuracy.

DC Voltage Test

WARNING: Input instrument DC voltage cannot exceed 1000V

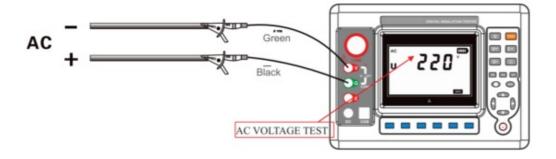
button to switch to the DC voltage test mode, connect the green test lead to When measuring, press the the **V** terminal, the black test lead to the COM. The LCD displays the real-time DC voltage value.



AC Voltage Test

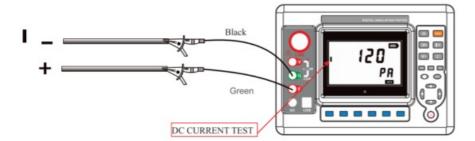
WARNING: Input instrument AC voltage cannot exceed 750V

button to switch to AC voltage test mode, connect the green lead to the V When measuring, press the terminal, and the black lead to COM. The LCD displays the real-time AC voltage value.



DC Current Test

1. When measuring, press the button to switch to DC current test mode. Connect the green lead to the E terminal, the black lead to the COM, and the LCD displays the real-time current value.



2. During the current test, the units of mA are shown in Figure 5-2, and the units of nA, uA, and pA are shown in Figure 5-1.

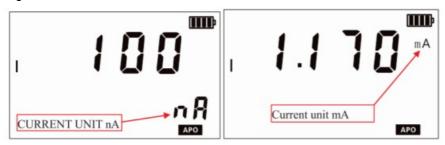


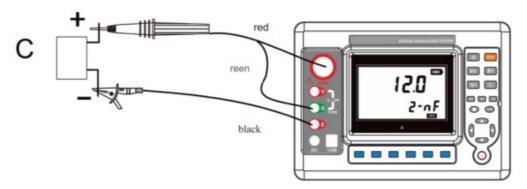
Figure 5-1 Test process display.

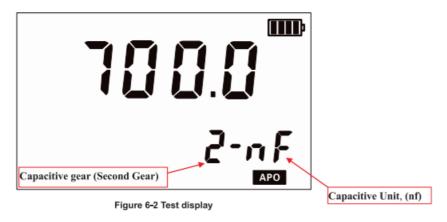
Figure 5-2 Test process display.

Capacitance Test

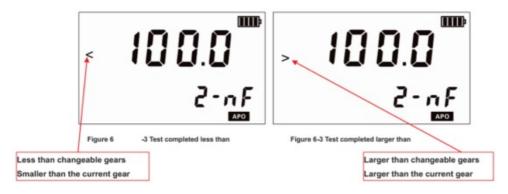
WARNING: Pay attention to standard operation during the capacitor test. Check whether the capacitor is charged before the test. After the test, the capacitor must be discharged. Do not touch the capacitor without discharge.

1. When measuring, press the button to switch to the capacitance test mode. One end of the high voltage probe test lead (red) is connected to the meter LINE and the other end of the head is in contact with the capacitor under test. The black test lead end is connected to COM and the other end is connected to the capacitor. Press the key to start the test (the meter will emit an intermittent beep during the test). After the test is completed, the LCD displays the correct capacitance value.





2. The capacitance measurement mode has 4 gears and requires manual shift testing. The first range is 10nf-100nf, the second range is 100nf1000nf, the third range is 1uf-10uf, and the fourth range is 10uf-50uf. During the test, the value greater than or less than a certain value needs to be manually switched to the corresponding gear. The gear can be switched by pressing the (gear minus 1) or (gear plus 1) button.



INSULATION RESISTANCE TEST

WARNING: Insulation resistance test can only be carried out on an uncharged circuit. Before testing, check whether the test circuit wiring is in good condition and whether the circuit under test is energized. If the circuit is live, it may damage the instrument and affect the measurement accuracy.

Must wear high voltage insulating gloves to operate.

In the insulation resistance range, press the test switch to generate high voltage in the test lead head and in the circuit under test.

Please be careful to avoid touching.

Be sure to connect the earth wire (black) to the earthing port of the circuit under test.

Do not remove the test lead immediately. Wait until the discharge is complete before touching the circuit under test.

 $\hat{m{\Lambda}}$ In order to ensure the measurement accuracy, do not twist the test leads together.

Precautions for testing high insulation resistance.

WARNING: After the high-voltage insulation material is added with DC voltage, the current passing through

the sample is very small, and it is very susceptible to the influence of external interference, causing large test errors.

The higher the measured resistance value, the longer the measurement time.

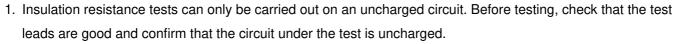
As humidity increases, surface leakage increases, and bulk electrical current also increases.

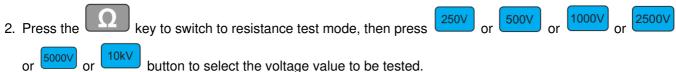
The resistance value of general materials decreases with the increase of ambient temperature and humidity.

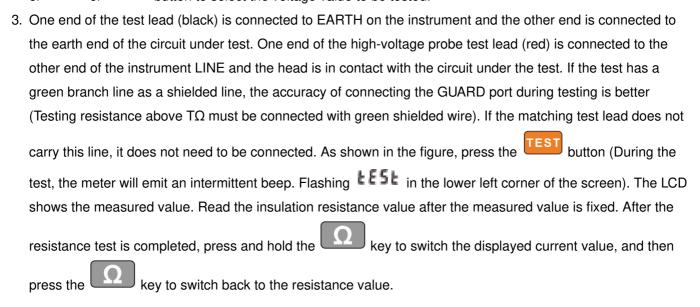
Guaranteed temperature and humidity of the insulation resistance accuracy.

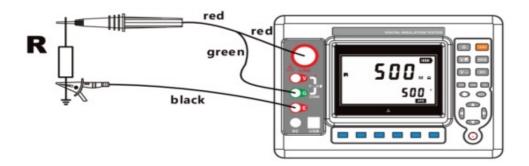
Insulation resistance ra	Guaranteed the humidity value of the i nsulation resistance accuracy	Guaranteed temperature of the insul ation resistance accuracy
0Ω - 100MΩ	<85% RH (No condensation)	
100ΜΩ – 20GΩ	<75% RH (No condensation)	
20GΩ – 1000GΩ	<65% RH (No condensation)	23°C ± 5°C
1000GΩ – 1ΤΩ	<55% RH (No condensation)	23 0 1 3 0
1ΤΩ – 10ΤΩ	<45% RH (No condensation)	
5ΤΩ – 35ΤΩ	<35% RH (No condensation)	

Insulation resistance test operation:



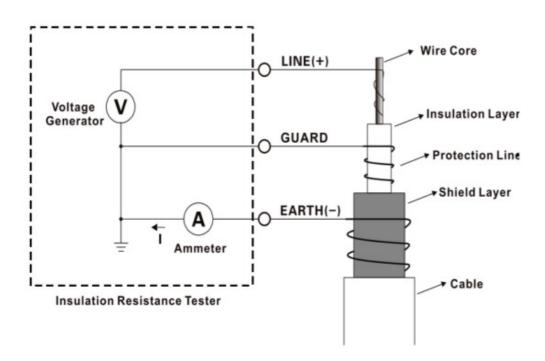






GUARD USE OF PROTECTIVE WIRES

When the insulation resistance of the cable is measured, the leakage current of the covered surface passes through the interior of the insulator and the current converges, resulting in an error in the insulation resistance value. In order to avoid this phenomenon, as shown in the figure below, use the protection wire (any conductive bare wire) to flow the leakage current through the part. After connecting to the protection port, the leakage current does not flow through the indicator and the insulator can accurately measure the insulation resistance. Please use the protection test cable of the accessory to connect the protection port.



POLARIZATION INDEX (PI) AND ABSORPTION RATIO (DAR)

The function of Polarization Index (PI) and Absorption Ratio (DAR):

The Polarization Index (PI) and Absorption Ratio (DAR) are tests to check whether the leakage current of the insulator has increased. The leak current did not increase while confirming the application time. The instrument automatically calculates the polarization index (PI) and the absorption ratio (DAR). As a judgement of the insulation performance, both the polarization index (PI) and the absorption ratio (DAR) indicate the change in the insulation resistance over a period of time after the measured object withstands the measured voltage.

The difference between Polarization Index (PI) and Absorption Ratio (DAR):

For general insulation tests, such as housing insulation, tool handles etc., can generally be tested in a relatively short period of time to increase the leakage current with the increase of the voltage application time, so generally can be tested with a short time test. The short-term insulation resistance ratio DAR is called the absorption ratio (see the following formula for the specific test time), but for the large-capacity and long-term absorption process,

such as transformers, generators, cables, capacitors and other electrical equipment, sometimes the absorption ratio (DAR) is not enough to reflect the whole process of absorption, and the insulation resistance ratio can be used for a longer time, that is, the ratio between the insulation resistance (R10min) at 10 minutes and the insulation resistance (R1min) at 1 minute describes the entire process of insulation absorption, and PI is called the polarization index.

The PI and DAR values are calculated by the following formula:

PI (Polarization Index) =	$\frac{R10Min}{R1Min}$
DAR (Absorption ratio) =	$\frac{R60Sec}{R15Sec}$
DAR (Absorption ratio) =	$\frac{R60Sec}{R30Sec}$

Remarks

- 1. R10Min= resistance value measured by the voltage applied for 10 minutes
- 2. R1Min=R60Sec=the resistance value measured by the voltage applied for 1 minute
- 3. R30Sec=It is the resistance value measured by the voltage applied for 30 seconds
- 4. R15Sec=It is the resistance value measured by the voltage applied for 15 seconds
- 5. DAR calculation time can choose 15 seconds or 30 seconds

Polarization Index (PI) and Absorption Ratio (DAR) Test:

- 1. The Polarization Index (PI) and Absorption Ratio Test (DAR) can only be performed on uncharged circuits. Before testing, check that the test leads are good and confirm that the circuit under the test is uncharged.
- 2. Press the key, then press or 500V or 1000V or 2500V or 5000V or 10kV button to select the voltage value to test.
- 3. Press the key to set the corresponding mode. The LCD shows "10:01m" as the polarization index mode in the lower left corner of the LCD, "60:15S" as the absorption mode 15 second mode, and "60:30S" as the absorption mode 30 second mode. Small numbers do not show anything for the insulation resistance measurement mode.



Figure 9-1 Absorption ratio mode 15 second mode



Figure 9-2 Absorption ratio mode 30 seconds mod

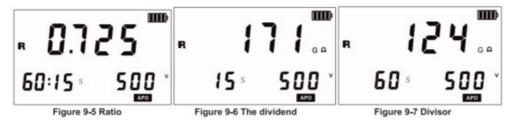


Figure 9-3 Polarization index mode



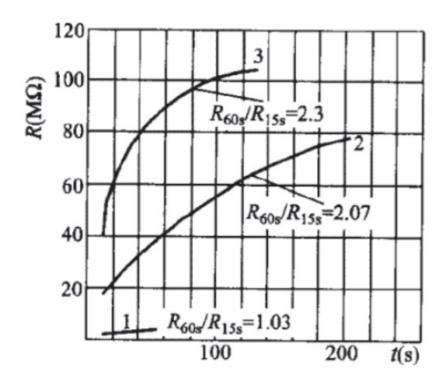
Figure 9-4 Insulation resistance measurement mode

- 4. One end of the test lead (black) is connected to EARTH on the instrument and the other end is connected to the earth end of the circuit under test. One end of the high-pressure probe test (red) is connected to the other end of the instrument LINE and the head is in contact with the circuit under test, and the The LCD displays the measured value. After the measured value is fixed, the absorbance or polarization index can be read.
- 5. After the test is completed, you can press to switch to view the divisor and ratio of the absorption ratio or polarization index value, or press to switch to view the ratio or divisor of the absorption ratio or polarization index value. (Such as in "60: 15S" mode, the lower left corner displays "60: 15S" as the ratio, the display "15S" as the dividend, and the display "60S" as the divisor, the other modes are the same).



Polarization Index (PI) and Absorption Ratio (DAR) Applications:

In engineering, insulation resistance and absorption ratio (or polarization index) can reflect the degree of moisture in the insulation of generators, oil-immersed power transformers and other equipment. The value of the absorption ratio (or polarization index) decreases after the insulation is wet (see Figure 1), so it is an important indicator of whether the insulation is affected by moisture. It should be pointed out that sometimes the insulation has obvious defects (for example, the insulation breaks down under high pressure), and the absorption ratio or polarization index value is still good. The absorption ratio or polarization index cannot be used to find other local insulation defects other than moisture and dirt.



Polarization Index Reference Judgment Value:

Polarization Index	Above 4	4 2	2.0 1.0	Below 1.0
Judge	The best	Good	Need to pay attention	Bad

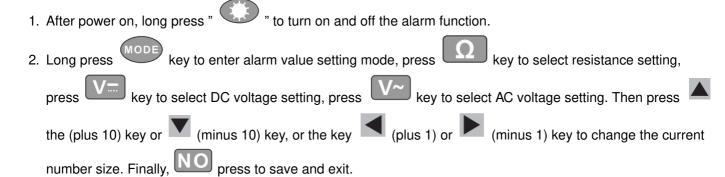
Absorption ratio reference judgment value:

Absorption ratio	Above 1.4	1.25 1.0	Below 1.0
Judge	The best	Good	Bad

BACKLIGHT CONTROL

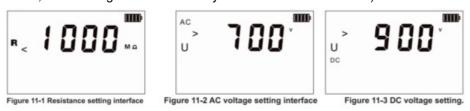
After power on, press " key to turn the backlight on or off, and the backlight function is suitable for dim places. The default backlight turns off every time you turn it on.

ALARM VALUE SETTING



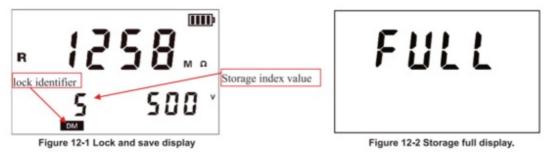
3. When the measured voltage value is greater than the alarm critical set value or the insulation resistance value

is less than the alarm critical set value and the alarm function is turned on, the instrument flashes the " symbol and issues a continuous alarm sound. The maximum value of the DC voltage alarm setting is 900V, the maximum value of the AC voltage alarm setting is 700V, and the maximum value of the insulation resistance alarm setting is $9999M\Omega$. The following figure shows an example ("<" is less than the symbol to indicate an alarm, and ">" is greater than the symbol to indicate an alarm):



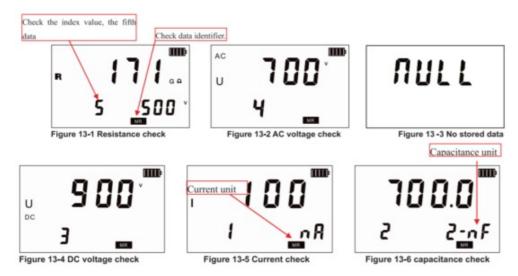
DATA LOCK/STORAGE

- 1. After the measurement is completed, press the key to lock the currently displayed data, and automatically numbered storage, short press key again to exit the lock, if the storage is full, the meter displays the "FULL" symbol.
- 2. As shown in the following figure: the measured data is $1258m\ \omega$, and the " display is stored as the fifth set of data. As shown in the following figure: the measured data is $1258M\Omega$, short press to display and store as the fifth group of data.



DATA REVIEW/DELETE

- 1. After booting, if the meter has saved data, long press the button to enter the data lookup, and store the data read interface "MR" symbol display. Press the " or " wey check the corresponding data with step value of 10, press the " or " key to check the corresponding data with a step value of 1, and then press to exit the check.
- 2. As shown in the figure on page 16: The number 5 in the lower left corner of the screen when checking is the currently stored 5th data. If there is no stored data, the LCD displays "**NULL**". (The resistance data in the lower right corner shows the voltage, current and capacitance display units used in the test).
- 3. In the data review state, long press Key to enter the data deletion,



press key not to delete and return to the data review state, press key to delete the all the stored data.

Delete page as shown below :



Figure 13-6 Delete display.

STEP ADJUSTMENT RESISTANCE MEASUREMENT VOLTAGE

After powering up, you can modify the voltage value by pressing or key at a step value of 50V below the 10KV voltage range, or by pressing or key at a step value of 5V.

Note: The maximum voltage does not exceed 10KV, and the step accuracy is ± 20%.

BATTERY DESCRIPTION

1. The meter uses a 12.6V lithium battery for power supply. When the battery power is low, the power symbol "

" is displayed, please charge it timeously.

Note: When the battery power is low, the measurement accuracy will be affected.

2. The higher the measurement voltage, the higher the battery power required.

SPECIFICATIONS

(Measuring function – Insulation Resistance)

Output voltage	Measuring Range	Accuracy	Resolution
	0.1ΜΩ 1ΜΩ	±3%rdg ±5dgt	0.001ΜΩ
	1ΜΩ 10ΜΩ	±3%rdg ±5dgt	0.01ΜΩ
	10ΜΩ 100ΜΩ	±3%rdg ±5dgt	0.1ΜΩ
250V (±10%)	100ΜΩ 1000ΜΩ	±3%rdg ±5dgt	1ΜΩ
	1GΩ 10GΩ	±3%rdg ±5dgt	0.01GΩ
	10GΩ 100GΩ	±10%rdg ±5dgt	0.1GΩ
	100GΩ 1000GΩ	±20%rdg±5dgt	1GΩ
	0.2ΜΩ 2ΜΩ	±3%rdg ± 5dgt	0.001ΜΩ
	2ΜΩ 20ΜΩ	±3%rdg ± 5dgt	0.01ΜΩ
	20ΜΩ 200ΜΩ	±3%rdg ± 5dgt	0.1ΜΩ
500V (±10%)	200ΜΩ 2000ΜΩ	±3%rdg ± 5dgt	1ΜΩ
	2GΩ 20GΩ	±5%rdg ± 5dgt	0.01GΩ
	20GΩ 200GΩ	±10%rdg ± 5dgt	0.1GΩ
	200GΩ 2000GΩ	±20%rdg ± 5dgt	1GΩ
	0.5ΜΩ 5ΜΩ	±3%rdg ± 5dgt	0.001ΜΩ
	5ΜΩ 50ΜΩ	±3%rdg ± 5dgt	0.01ΜΩ
	50ΜΩ 500ΜΩ	±3%rdg ± 5dgt	0.1ΜΩ
1000V (±10%)	500ΜΩ 5000ΜΩ	±3%rdg ± 5dgt	1ΜΩ
	5GΩ 50GΩ	±3%rdg ± 5dgt	0.01GΩ
	50GΩ 500GΩ	±10%rdg ± 5dgt	0.1GΩ
	500GΩ 5000GΩ	±20%rdg ± 5dgt	1GΩ
	1ΜΩ 10ΜΩ	±3%rdg ± 5dgt	0.01ΜΩ

	10ΜΩ 100ΜΩ	±3%rdg ± 5dgt	0.1ΜΩ
05001/(+400/)	100ΜΩ 1000ΜΩ	±3%rdg ± 5dgt	1ΜΩ
2500V (±10%)	1GΩ 10GΩ	±3%rdg ± 5dgt	0.01GΩ
	10GΩ 100GΩ	±3%rdg ± 5dgt	0.1GΩ
	100GΩ 1000GΩ	±10%rdg ± 5dgt	1GΩ
	1ΤΩ 10ΤΩ	±20%rdg ± 10dgt	0.01ΤΩ
	2ΜΩ 20ΜΩ	±3%rdg ± 5dgt	0.01ΜΩ
	20ΜΩ 200ΜΩ	±3%rdg ± 5dgt	0.1ΜΩ
	200ΜΩ 2000ΜΩ	±3%rdg ± 5dgt	1ΜΩ
5000V (±10%)	2GΩ 20GΩ	±3%rdg ± 5dgt	0.01GΩ
	20GΩ 200GΩ	±5%rdg ± 5dgt	0.1GΩ
	200GΩ 2000GΩ	±10%rdg ± 5dgt	1GΩ
	2ΤΩ 10ΤΩ	±20%rdg ± 10dgt	0.01ΤΩ
	5ΜΩ 50ΜΩ	±3%rdg ± 5dgt	0.01ΜΩ
	50ΜΩ 500ΜΩ	±3%rdg ± 5dgt	0.1ΜΩ
	500ΜΩ 5000ΜΩ	±3%rdg ± 5dgt	1ΜΩ
10KV (±10%)	5GΩ 50GΩ	±3%rdg ± 5dgt	0.01GΩ
	50GΩ 500GΩ	±5%rdg ± 5dgt	0.1GΩ
	500GΩ 5000GΩ	±20%rdg ± 5dgt	1GΩ
	5ΤΩ 35ΤΩ	±30%rdg ± 10dgt	0.01ΤΩ

Remark: Common electrical unit conversion

1 TΩ (Tera ohm) =1000GΩ=10 Ω

1 GΩ (Giga ohm) =1000MΩ=10 Ω

1 MΩ (Mega ohm) =1000KΩ=10 Ω

Voltage Range and Accuracy

Measuring function	Measuring Range	Accuracy	Resolution
DC voltage	0.0V 1000V	±1.5%rdg ± 3dgt	0.1V
AC voltage	0.0V 750V	±1.5%rdg ± 3dgt	0.1V

Current Range and Accuracy

Measuring function	Measuring Range	Accuracy	Resolution
	1mA – 6mA	±5%rdg ± 2dgt	0.01mA
	100uA – 1000uA	±5%rdg ± 2dgt	1uA
	10uA – 100uA	±5%rdg ± 2dgt	0.1uA
DO	1uA – 10uA	±5%rdg ± 2dgt	0.01uA
DC current	100nA – 1000nA	±5%rdg ± 2dgt	1nA
	10nA – 100nA	±10%rdg ± 5dgt	0.1nA
	1nA – 10nA	±20%rdg ± 5dgt	0.01nA
	100pA – 1000pA	±30%rdg ± 5dgt	1pA

Capacitance Range & Accuracy

Measuring function	Measuring Range	Accuracy	Resolution
	10uf – 50uf	±10%fs. ± 5dgt	0.01uf
Capacitance	1uf — 10uf	±10%fs. ± 5dgt	0.01uf
Оараспапсе	100nf – 1000nf	±10%fs. ± 5dgt	1nf
	10nf – 100nf	±10%fs. ± 5dgt	0.1nf

Technical Specifications

Function Insulation resistance test, voltage test, DC current test, capacitance test

Function	Range	
Basic condition	23°C ± 5°C, below 75%rh	
Rated voltage	250V, 500V, 1000V, 2500V, 5000V, 10kV	
Test Voltage(V)	Rated voltage x (1±10%)	
Insulation resistance range	0.01ΜΩ 35ΤΩ	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@15KV	
Absorption, Ratio and Polarization Index Measurement	PI (Polarization Index) = $\frac{R\ 10\ Min}{R\ 1\ Min}$ DAR (Absorption ratio) = $\frac{R\ 60\ Sec}{R\ 30\ Sec}$	DAR (Absorption ratio) = $\frac{R \ 60 \ Sec}{R \ 30 \ Sec}$
Power Supply	12.6V rechargeable battery	
Backlight	Controllable grey screen backlight, suitable for use in dim places.	

Function	Range	
Display Mode	4-bit large LCD display, grey screen backlight	
LCD display size	108mm x 65mm	
Instrument size	L/W/H: 240mm x 188mm x 85mm	
USB interface	With USB interface, software monitoring, storage data can be uploaded to the computer, save and print	
Communication Line	USB communication line 1PC	
Test Lead	High voltage probe red 3m, high voltage test lead black 1.5m, green 1.5m	
Data Storage	500 groups, "FULL" symbol indicates that storage is full	
Data Review	Data review function: "MR" symbol display	
Overflow Display	Exceed measurement range overflow function: ">" symbol display	
Alarm Function	Alarm when the measured value larger or smaller than the alarm setting value	
Power Consumption	Standby: 30mA Max (backlight off), Turn on backlight: 42mA Max, Measure: 200mA Max (backlight off)	
Instrument weight	2750g (including battery)	
Battery voltage	When the battery voltage is low, low battery symbol " " will display	
Automatic shut-down	Automatic shutdown after 15 minutes	
Insulation Resistance	≥50MΩ (between Measuring line and housing)	
Pressure Resistance	AC3kV/50Hz 1min	
Working Temperature and Humidit y	-10°C +50°C 85%RH	
Storage Temperature and Humidit y	-15°C +55°C 90%RH	
Safety Regulations	IEC61010-1, IEC1010-2-31, IEC61557-1,5, IEC60529(IP54) pollution grade 2, CAT III 300V	

ACCESSORIES

Instrument	1 PC
High pressure rod	1 PC red
High voltage test lead	2 PCS (black, green each 1
Monitoring Software CD	1 PC
USB communication line	1 PC
Charger	1 PC
Manual, certificate	1 SET
Instrument box	1 PC

The contents of this user manual cannot be used as a reason for using the product for special purposes. Major Tech is not responsible for other losses caused by use.

Major Tech reserves the right to modify the contents of the user manual. Subject to change without notice.

Customer Support

South Africa



Australia







Documents / Resources



MAJOR TECH MT577 10kV Diagnostic HV Insulation Tester [pdf] Instruction Manual MT577 10kV Diagnostic HV Insulation Tester, MT577, 10kV Diagnostic HV Insulation Tester, HV Insulation Tester, Insulation Tester

References

- Major Tech
- M Home Major Tech Australia
- User Manual

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