

DIGITAL INSULATION TESTER DIT72

APPLICATION: DIT-72 High Voltage Insulation Resistance Tester is a high performance high voltage insulation resistance tester of well research and development by our company. The tester has complete various insulation resistance index test functions, self-set test voltage function, and good anti-interference ability. It has obvious advantage in substation and other environments with strong induction and large distributed capacitance. The instrument equip with true-color touch screen, and all test data and battery power are displayed on the same screen which is clear and obvious. The combination of the rotary switch and the button makes the operation very simple. The user does not need to memorize the operation method, and the operation method will pop up by clicking the "HELP" button on the screen, effectively guiding the user to operate the instrument. The tester is suitable for insulation resistance testing of large-scale equipment such as electrical equipment and transmission lines in large-capacity, high-voltage, and strong-inductive environments. It is a commonly used and indispensable instrument in the departments of electric power, telecommunications, meteorology, computer rooms, oil fields, electromechanical installation and maintenance, and power supply departments of industrial and mining enterprises.



FEATURES:

- 5-inch touch colourful screen, the test data is displayed on the same screen. It is very convenient to do the test operation and view history data.
- Insulation resistance range: 0.005MΩ~30TΩ.
- Output rated voltage max reach 8 gears (50V, 250V, 500V, 1kV, 2.5kV, 5kV, 10kV, 15kV).
- Max short circuit current 7mA.
- Large output power, strong anti-interference ability, and with stable test capability in large distributed capacitance site (such as long cables) and strong electromagnetic interference environments (such as substations).
- Perfect measurement feature: Insulation resistance test (IR), polarization index test (PI), dielectric absorption ratio test (DAR), Step test(STEP), Ramp test(RAMP), Dielectric discharge index(DD), Distributed capacitance(CAP), Voltage(V).
- Custom setting measurement mode: PI, DAR, DD calculation formula can be selected to 3 Provide users with multiple choices.
- Custom setting voltage mode: the test voltage and test duration can be set freely, which is convenient for special site.
- Voltage monitor: Automatically monitor the live voltage of the measured object. The voltage exceeds 36V will automatically prohibits the test to effectively protect the instrument and the operator.
- Current monitor: Automatic display the current of test circuit
- Temperature monitor: Automatic display the temperature and humidity of tester inside.
- Automatic discharge function, automatically and quickly release the electric charge of the tested object after the test, no need an external discharge circuit.
- Large capacity rechargeable lithium battery pack 14.8V 6400mAh, to ensure long-term testing work.

- Large-capacity test record memory, test records can be browsed and analysed directly in the tester, can automatically store the real-time test data with test date and test timing and total of 1000 groups.
- USB communication and upload function, the record data can upload to computer store and analysis.

SPECIFICATION:

Product Model	Output Voltage	Insulation Resistance Range	Short Circuit Current
DIT-72	50V, 250V, 500V, 1kV, 2.5kV, 5kV, 10kV, 15kV	0.005MΩ~30.0TΩ	>7mA MAX

Insulation Resistance Range & Accuracy

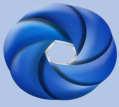
Output Voltage	Insulation Resistance Range	Accuracy
50V	0.005MΩ~10.0GΩ	±5%rdg±3dgt
	10.0GΩ~100GΩ	±10%rdg±3dgt
250V	0.05MΩ~50.0GΩ	±5%rdg±3dgt
	50.0GΩ~500GΩ	±10%rdg±3dgt
500V	0.1MΩ~100GΩ	±5%rdg±3dgt
	100GΩ~1.00TΩ	±10%rdg±3dgt
1000V	0.5MΩ~200GΩ	±5%rdg±3dgt
	200GΩ~2.00TΩ	±10%rdg±3dgt
2.5KV	1MΩ~1TΩ	±5%rdg±3dgt
	1TΩ~5.00TΩ	±10%rdg±3dgt
5KV	2MΩ~2.00TΩ	±5%rdg±3dgt
	2.00TΩ~10.0TΩ	±10%rdg±3dgt
10KV	5MΩ~4.00TΩ	±5%rdg±3dgt
	4.00TΩ~20.0TΩ	±10%rdg±3dgt
15KV	10MΩ~6.00TΩ	±5%rdg±3dgt
	6.00TΩ~30.0TΩ	±10%rdg±3dgt

1 TΩ (Tera ohm) =1000GΩ=10¹²Ω

1 GΩ (Giga ohm) =1000MΩ=10⁹Ω

1 MΩ (Mega ohm) =1000KΩ=10⁶Ω

Function	Insulation resistance measurement (IR); polarization index measurement (PI); Dielectric absorption ratio (DAR); Step test (STEP); Ramp test(RAMP); Dielectric discharge index(DD); Voltage test(V); Capacity test(CAP)
Power Supply	Rechargeable lithium battery 6400mAh 14.8V
Output Voltage Gear	50V, 250V, 500V, 1kV, 2.5kV, 5kV, 10kV, 15kV
Custom Setting Voltage	40V~15kV
Output Voltage Accuracy	+4%±10V (when 50V: 4%±2V)



Insulation Resistance Test Range	0.005MΩ~30.0TΩ
Output Short Circuit Current	≥7mA
Polarization Index Test	YES
Dielectric Absorption Ratio Test	YES
Step Mode (STEP)	YES
Ramp mode(RAMP)	YES
Dielectric discharge index(DD)	YES
Voltage Test	Range: DC:0V~1000V ; Accuracy: ±5%rdg±3V Range: AC: 0V~750V; Accuracy: ±5%rdg±3V
Capacitance Test	Range : 10nF~200uF ; Accuracy: ±10%rdg±10nF
Real Time Current Display	Display test current value, current display range: 0.001nA~7.5mA
Real Time Voltage Display	Real time monitoring the voltage of the tested terminal, In the non-test state, when the voltage is larger than 36V, the test is prohibited to protect the safety of the instrument and the operator.
Test Timer	Automatic record test time, time range:
Test Time	After selecting the DAR, PI, DD test options, the test will be stopped immediately after the test result is obtained; in the custom test mode, the test duration can be set by user; in the normal test mode, the test time is not limited, and the operator can manually stop the test
Custom Setting Time	10s~3600s
Store Function	Automatically store the test data, which can reply the test recordintester
USB Communication	Yes, the test record can upload to the PC through USB cable
Battery Power Display	With battery power display, when battery voltage low will remind to charge in time
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation
Tester Dimension	280mmX260mmX160mm
Tester Weight	3517g (include the battery); Total weight: 5.7kg (Accessories)
Protection Level	Close the case IP65, open the case IP40
Maximum immunity to noise/interference	8mA
Working Environment	-20°C~50°C; 80%RH
Store Environment	-25°C~65°C; 80%RH
Insulation Resistance	50MΩ (1000v) (between the test circuit and shell)
Withstand Voltage	AC 3kV 50Hz 1min (between the test circuit and shell)
Suitable Safety Standard	IEC61010-1, IEC61326-1

Accessories

Host: 1PCS, high voltage test wire(red): 1PCS, Test wire (green): 1PCS; Test wire (black): 1PCS; Alligator clip: 1PCS; Hook 1PCS; USB communication cable and Software; Tool bag: 1PCS, Charger adaptor (DC 19V), Instruction Manual.