METRAVI PRO

HIGH VOLTAGE INSULATION RESISTANCE TESTER
PRO DIT-925 / PRO DIT-927

- Max Output Voltage 10 KV (For DIT-927)
- Max Output Voltage 5KV (For DIT-925)
- Max Test Resistance 5TΩ (For DIT-927) Max
- Test Resistance 2T Ω (For DIT-925) Max
- Short Circuit Current 5mA
- Polarization Index Test (PI)
- Dielectric Absorption Ratio Test (DAR)
- Ramp Test Mode (RAMP)
- Filtered Resistance Test Mode (FR)
- True Color Touch Screen
- Large Capacity Rechargeable Lithium Battery
- USB Data Upload Function

INTRODUCTION

The PRO DIT-925 and PRO DIT-927 series High Voltage Insulation Resistance Tester are intelligent, high-end insulation resistance testers, well-developed by METRAVI. The instruments come with perfect test functions of various insulation resistance parameters and excellent anti-interference ability. The instruments adopt true-color touchscreens and all test data and battery power are displayed at the same time. The combination of knob switch and button makes the operation very simple. The user need not memorise the operation method, just needs to click the "HELP" on the screen and a pop-up displays the operation method, which effectively guides the user to operate the respective instruments. The instruments have the function of rapid discharge and automatically monitor the live voltage of the measured object. If voltage exceeds 36V, the test is automatically disallowed in order to protect the instrument and operators effectively.

The meters automatically store test results which contain date and time. The touch screen can very convenient to check and analyse the recorded historical data. The fully isolated USB interface uploads the test data to the PC safely. The instrument is equipped with double insulation and shielding layer test wire and the high voltage rod is equipped with replaceable crocodile clips and hooks, which can be used in various test places. The instruments feature hard double-shell structures, and the meter outer cases have IP65 protection level, which prevents moisture and dust intrusions and collision during transportation and storage, protecting the meters effectively.

FUNCTION

Suitable for insulation resistance testing of cable, motor, generator, transformer, mutual inductor, high voltage switch, arrester and other large equipments.

Insulation Resistance measurement (IR); Polarisation Index measurement (PI); Absorption Ratio (DAR); Ramp Test mode (RAMP) ; Filtered Resistance test (FR), Voltage measurement (V); Current measurement (nA).

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FEATURES

1. A combination of colour touchscreen, button and wave band knob makes the functioning perfect and can be directly tested with one button. Checking the inquiry records is simple and convenient.

2. Rich display which displays multiple values and readings on the same screen: various test modes, insulation resistance value, output voltage, voltage of the test object, current, test time, test timing, battery power, operation help, etc.

3. Double shell structure, firm and durable with protection level IP65.

4. Large capacity rechargeable lithium battery.

5. Voltage monitor function - automatically monitor live voltage of the test object.

6. Test timer function - automatically record test time.

7. Automatic discharge function - after the test automatically releases the charge of the test object.

8. Store function - automatically stores 1000 groups of real-time test data with test date, time and timing.

9. Upload function - the recorded data can be uploaded to the computer using USB communication cable for data and statistical analysis.

INSULATION RESISTANCE MEASUREMENT ACCURACY

Rate Voltage		250V	500V	1000V	2500V	5000V	10KV
Range and Accuracy	±5%	10.0GΩ	20.0GΩ	50.0GΩ	100GΩ	200GΩ	500GΩ
	±10%	50.0GΩ	100GΩ	200GΩ	500GΩ	1.00TΩ	2.00TΩ
	±20%	100GΩ	200GΩ	500GΩ	1.00TΩ	2.00TΩ	5.00TΩ

TECHNICAL SPECIFICATIONS

Model	DIT-925	DIT-927
Rated Voltage	250V, 500V, 1000V, 2500V, 5000V	250V, 500V, 1000V, 2500V, 5000V, 10KV
Output Voltage Accuracy	(5% ~ 10%) ±10V	(5% ~ 10%) ±10V
Insulation Resistance Range	0.50MΩ ~ 2.00TΩ	0.50MΩ ~ 5.00TΩ
Output Short Circuit Current	≥5mA	≥5mA
Power Supply	Rechargeable lithium battery pack 5.2Ah	

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TECHNICAL SPECIFICATIONS (*Cont.*)

Model	DIT-925	DIT-927
Polarization Index Test	Yes	
Dielectric Absorption Ratio Test	Yes	
Ramp Test Mode	The output voltage will start at 10% of the preset voltage and increase in steps of 10% until the preset voltage is reached	
Filtered Resistance Test Mode	10S ,20S, 30S, 40S (4 selection)	
Voltage Test	Range: AC/DC 0V ~ 1000V; Accuracy: ± 5%rdg ±3V	
Current Test	Range: 0.01nA ~ 5 mA; Accuracy: ± 5%rdg ± 0.5mA	
Voltage Monitor	Monitor the voltage of the measured object, and monitor discharge status after test, Forbidden to test when voltage is larger than 36V, protect instrument and operator.	
Test Timer	Automatic record test time, time range: 0s~9999s	
Storage Function	Automatically store the test data with test date and time, total of 1000 groups	
Upload Function	Upload the stored data to computer with USB communication cable.	
Battery Power Display	With battery power display, when battery voltage low will remind to replace the battery	
Automatic Shutdown	After 15 minutes start up will shut down automatically without any operation	
Meter Dimension	280mm×260mm×160mm	
Meter Weight	4400g (include battery)	
Test Wire	Red color high voltage test wire 1pcs (with alligator clip 1PCS and hook 1PCS), green color test wire 1PCS, black color test wire 1PCS	
Protection Level	Close the case IP65, open the case IP40	
Working Environment	-20°C ~ 50°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, high voltage test wire, Test wire (green); Test wire (black); Alligator clip; Hook; USB communication cable; Software CD; Tool bag	