



UNI-T®



UT620T

10A DC Resistance Tester

The UT620T DC Resistance Tester, also known as the Transformer DC Resistance Tester or DC Resistance Fast Tester, adopts the four-wire measurement method, ensuring safety, precision, and reliability.

It is widely applied in telecommunications, power systems, meteorology, data centers, oil fields, power distribution lines, transmission towers, gas stations, factory grounding networks, lightning rods, and other fields for DC resistance measurement.



DC resistance test
(0.1 $\mu\Omega$ ~1.0000M Ω)



Large test current
(10A & 8 stepping levels)



PC software
(data recording & analysis)



7-inch LCD color screen
(with high resolution)



Dual power supply
(AC power & Lithium battery)



Audible discharge alarm

DC resistance measurement

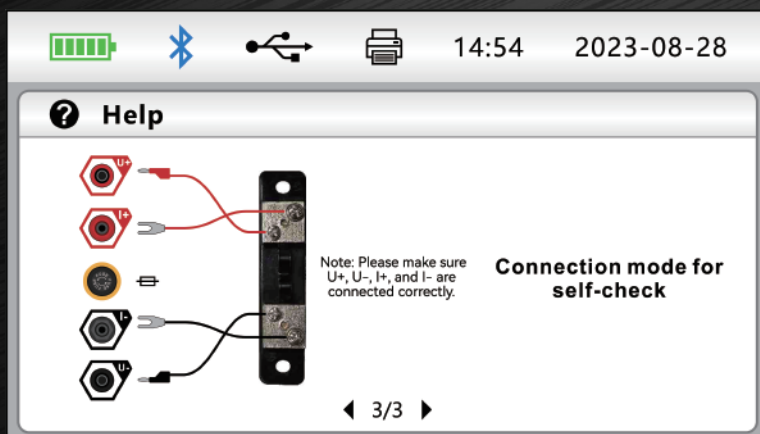
- 1, **10A** large Test current
- 2, **0.1 $\mu\Omega$** high resolution



Wire length measurement

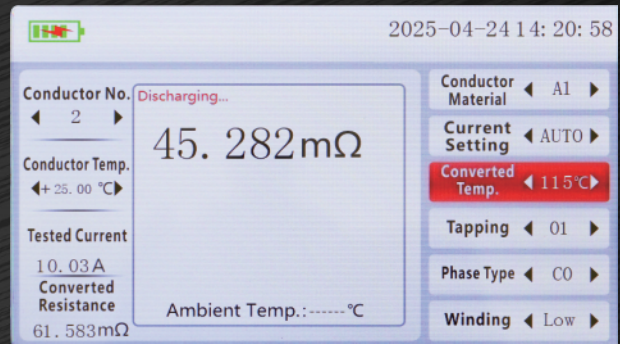
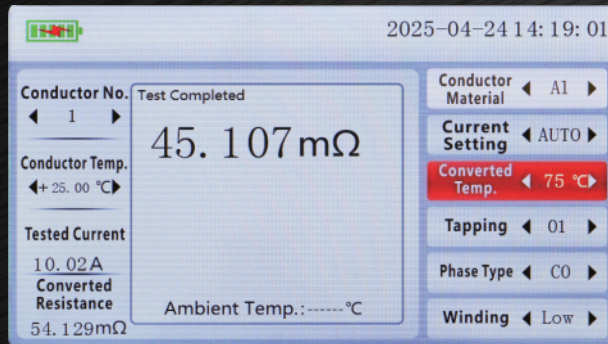


Product Self-Test Mode



The instrument can perform self-tests using an accessory standard resistor to verify measurement accuracy and ensure data reliability.

Temperature Conversion



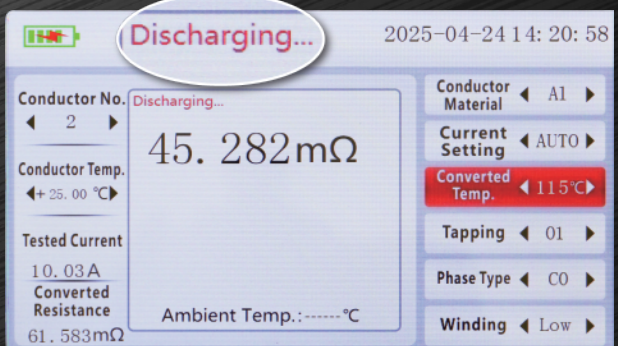
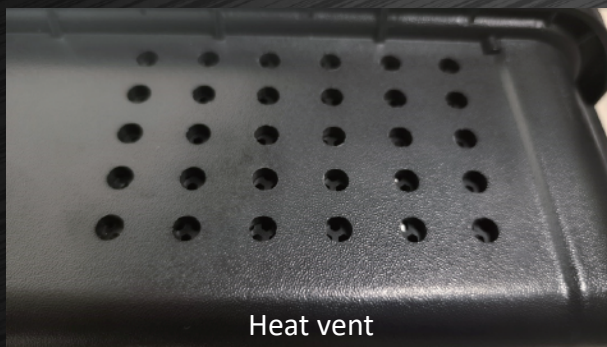
Two preset conversion temperatures (75 $^{\circ}\text{C}$ and 115 $^{\circ}\text{C}$) are available to accommodate diverse testing scenarios.

Environment temperature Measurement



26.5 $^{\circ}\text{C}$

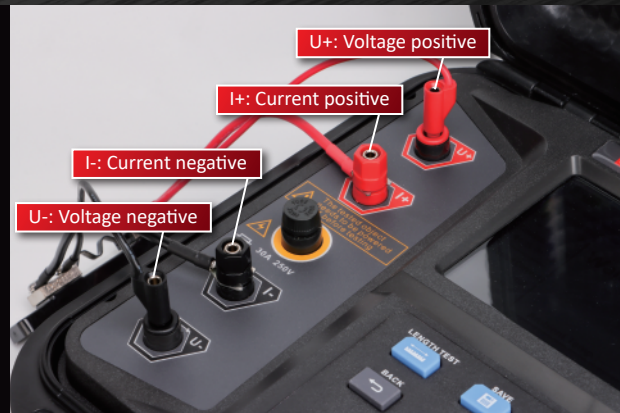
Safety protection



- 1, Audible discharge alert with clear visual indicators to prevent mis-operation
- 2, Built-in protection against back EMF, discharge hazards, and overheating

Four-wire testing method

Separating current electrodes from voltage electrodes eliminates impedance from internal wiring and contact resistance, ensuring more accurate measurements.



Power supply



220V AC power



Lithium battery

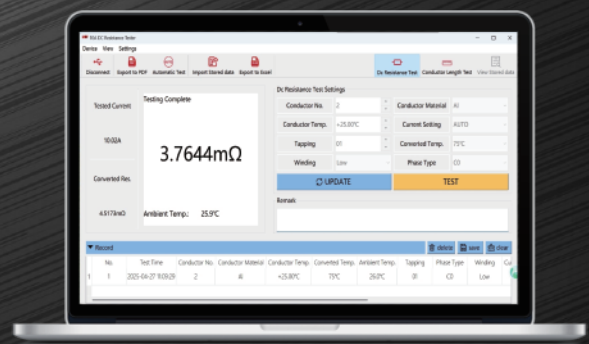
- 1, Built-in Li-ion battery pack: 14.8V/5000mAh; Max. output measurement power: 20W
- 2, AC power support: 180-240V/50Hz; Max. output measurement power: 150W (AC mode)

Built-in printer



- 1, Historical data can be printed.
- 2, Thermal paper specifications: 57mm(W) x diameter: 30mm;
- 3, Status information: Self-test results, measurement date & time
- 4, Real-time data: temperature, DC resistance, tested current

Data communication



- Real-time analysis
- Historical data review
- Excel report generation

Technical Specifications

Item	Range		Minimum Resolution	Accuracy	Overrange display
	AC power supply	Built-in battery			
Constant-current 10A	100.0μΩ - 1.5000Ω	100.0μΩ - 200.00mΩ	0.1μΩ	Constant-current: ±0.1%rdg ± 0.1%fs	>Maximum range
Constant-current 5A	1.5000mΩ - 4.0000Ω	1.5000mΩ - 800.00mΩ	0.0001mΩ		
Constant-current 1A	10.000mΩ - 20.000Ω	10.000mΩ - 12.000Ω	0.001mΩ		
Constant-current 400mA	50.000mΩ - 50.000Ω	50.000mΩ - 30.000Ω	0.001mΩ		
Constant-current 200mA	100.00mΩ - 100.00Ω	100.00mΩ - 60.000Ω	0.01mΩ		
Constant-current 40mA	500.00mΩ - 500.00Ω	500.00mΩ - 300.00Ω	0.01mΩ		
AUTO (current)	100.0μΩ - 1.0000MΩ	100.0μΩ - 1.0000MΩ	0.1μΩ	Constant-voltage: ±2%rdg ± 0.5%fs	>999.99km
Constant-voltage 12V/<5mA	1.0000Ω - 1.0000MΩ	1.0000Ω - 1.0000MΩ	0.0001Ω		
AUTO (voltage)	100.0μΩ - 1.0000MΩ	100.0μΩ - 1.0000MΩ	0.1μΩ	±0.5%	>999.99km
Length display range	0.0001m - 999.99km		0.0001m		
Resistance value (1m wire)	0.100μΩ - 500.00Ω		0.100μΩ	±0.5%	
DC resistance test position	Support fixed gear and step adjustment				
Ambient temperature display	Insert the standard temperature line to display the ambient temperature normally (accuracy +/-2°C)				
Data storage	After the test is completed, the data can be saved automatically, cyclically, and manually. A maximum of 9999 sets of data can be stored.				
Discharge alert	After the test is over, the buzzer sounds to indicate that it is discharging, and the buzzer stops sounding after the discharge is completed				
Printer	A printer is embedded in the instrument panel, and the test results are printed by pressing the print button				
Test method	Four-wire test, tap test lead + test clamp at both ends				
Display mode	7-inch LCD color screen				
Power supply	Rechargeable lithium battery 14.8V 5000mAh or AC 110-240V/50Hz				
Rated current	40mA-10A				
Resistance test range	100μΩ~1MΩ				
High voltage warning	When a reverse voltage is detected, a hazard warning symbol flashes to warn				
Automatic discharge	√				
Backlight function	Adjustable backlight brightness (1-5 brightness levels in total)				
Communication function	Data can be transferred by USB flash disk, etc., Bluetooth function (optional)				
Battery level display	√				
Low battery and position selection	When there are 2 levels of power left in the battery, it cannot output a position greater than 2A. When there is 1 level of power left, it cannot output a position greater than 400mA.				
Auto-shutdown function	When using battery power, it will automatically shut down after about 10 minutes of no operation when powered on				
Power switching	By default, it is battery-powered, and when it is switched to mains power, the battery symbol changes to AC plug symbol				
Testing transformers	It can test the internal resistance of transformers below 1000kVA normally				
Meter dimension	Approx. 386mm (L) x 318mm (W) x 159mm (H)				
Meter weight	7.1kg (Without accessories)				

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TECHNOLOGY



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