

Technical Specifications

| Current (customizable) | Range/Resolution | Accuracy | Range/Resolution | Accuracy |
|-----------------------------|---|---|---|--------------------|
| 200A | | | 0.1uΩ~1999.9uΩ: 0.1uΩ | ±(0.4%rdg+0.04%FS) |
| 100A | 0.1uΩ~1999.9uΩ: 0.1uΩ | | 2.000mΩ~9.999mΩ: 0.001mΩ | ±(0.4%rdg+0.04%FS) |
| 100A | 2.000mΩ~9.999mΩ: 0.001mΩ | ±(0.4%rdg+0.04%FS) | 10.00mΩ~99.99mΩ: 0.01mΩ | ±(0.4%rdg+0.04%FS) |
| 50A | 10.00mΩ~99.99mΩ: 0.01mΩ | | 100.0mΩ~499.9mΩ: 0.1mΩ | ±(0.4%rdg+0.04%FS) |
| 5A | 100.0mΩ~499.9mΩ: 0.1mΩ | ±(0.4%rdg+0.6%FS) | 500mΩ~2000mΩ: 1mΩ | ±(0.4%rdg+0.6%FS) |
| 500mΩ~1000mΩ: 1mΩ | | | | |
| Functions | 1. To test the contact resistance of low/medium/high-voltage circuit breakers; 2. To test bus connections and other high-current connection points. | | | |
| Resistance measurement | 0.1uΩ~1000mΩ: 0.1uΩ | | 0.1uΩ~2000mΩ: 0.1uΩ | |
| Test method | 1. Four-wire Kelvin test; 2. Separation of current and voltage electrodes eliminates internal wiring impedance and contact resistance for more accurate measurements; 3. Minimizes measurement errors to achieve high-precision results when measuring low-resistance components. | | | |
| Noise suppression | At 100 mV differential pressure, the noise frequency of the test lead is 50-60 Hz. | | | |
| Stepping test current | 1. 5A~100A DC; 2. Stepping current: 5A/10A | | 1. 5A~200A DC; 2. Stepping current: 5A/10A | |
| Test time | 10S, 20S, 30S, 60S, stepping time: 1s. | | | |
| Test duration | 1. 100A: the maximum continuous test up to 60 seconds, meeting the requirements of various field applications 2. 50A: the maximum continuous test up to 180 seconds, meeting the requirements of various field applications | 1. 200A: the maximum continuous test up to 60 seconds, meeting the requirements of various field applications 2. 100A: the maximum continuous test up to 120 seconds, meeting the requirements of various field applications | | |
| Resistance value comparison | 1. Pre-set value: 0.000~9999.9mΩ; 2. Compare measured and set resistance values, automatically display "PASS" or "FAIL" | | | |
| Over range indication | 1. Low Limit Alert: When the loop resistance measurement is low limit, the measurement interface will display "LO"; 2. Over-limit indication: when the loop resistance measurement exceeds the limit, the measurement interface will display "OL"; | | | |
| Self-inspection | 1. Yes, Self-calibration via standard accessory "shunt" to verify measurement accuracy and ensure reliable data. 2. UT625A: 750μΩ; UT625B: 375μΩ | | | |
| Open circuit voltage | UT625A (voltage: 5V DC) UT625B (voltage: 10V DC) | | | |
| Overheating protection | V | | | |
| Output power | Measurement power ≤ 250W | | | |
| Display | 7 inch color LCD | | | |
| Printer | Built-in thermal printer | | | |
| Input power supply | AC198V~242V (50/60Hz) | | | |
| Data Communication | Supports PC connection (via USB cable). 1. Real-time analysis; 2. Historical data review; 3. Excel report generation. | | | |
| Data storage | 200 sets; auto/manual save, Circular save | | | |
| Backlight | 5 levels adjustable backlight | | | |

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100A/200A LOW RESISTANCE OHM METER

UT625A/B



The UT625A/UT625B is a low resistance tester for measuring switchgear contact and loop resistance using 100A/200A DC current.

It's used for testing high-voltage switches, transformers, busbars, and new energy equipment in power, rail, and energy sectors.





Loop resistance measurement

- 1, UT625A: 100A Test current; $0.1\mu\Omega \sim 1000m\Omega$
- 2, UT625B: 200A Test current; $0.1\mu\Omega \sim 2000m\Omega$
- 3, $0.1\mu\Omega$ high resolution

Multiple Testing current



UT625A: adjustable testing current (5A, 10A, ..., 100A), stepping current: 5A or 10A
 UT625B: adjustable testing current (5A, 10A, ..., 200A), stepping current: 5A or 10A

Multiple testing current, more application scenarios, high efficiency.

Product Self-Test Mode



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



Four-wire (kelvin) testing method

1, The four-wire (Kelvin) method separates the current and voltage electrodes, eliminating the internal impedance of the instrument and the contact resistance of test leads, thereby significantly improving measurement accuracy.

2, This technique is particularly effective for low-resistance measurements, minimizing errors and enhancing precision.



1, adjustable testing time; 2, 10s, 11s, ..., 59s, 60s

Data storage



1, up to 200 sets data storage; 2, Save Automatic/Manual/Cyclically

Data communication

After connecting to the host computer software via USB:



- 1, Real-time analysis
- 2, Historical data review
- 3, Excel report generation

Buit-in printer



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

Safety protection



- 1, Built-in protection against, discharge hazards, and overheating