

The Tekneka DOM100 is a high-precision handheld micro-ohmmeter designed for accurate low-resistance measurements with a resolution of 0.01μΩ. It has a standard resistor for accuracy checks, a current measuring range of 5A to 100A, and high stability with an open circuit and overheating protection. The robust and user-friendly DOM100 is perfect for conducting contact resistance tests on metallic welding components, busbars, cables, MV/HV switches, and circuit breakers. The Tekneka DOM100 is perfect for both industrial and field applications.

Features

- Selectable Current: 5A (automatic), 10A, 30A, 50A, 80A, and 100A
- High resolution of 0.01μΩ for resistance measuring
- Test time can be chosen from rapid, 10S, 20S, 30S, 40S, 50S, and 60S
- Up to 999 sets of data can be automatically numbered and stored by it
- A loose contact alert will be indicated if there is a loose contact between I± and U±
- High stability with protection against overheating and open circuits
- Use a standard resistor to perform an accuracy test
- Device will automatically shut off after around 15 minutes if it is not in use
- Observe recorded sets with ease from the list
- Real-time or recorded data can be printed instantaneously
- Temperature values are displayed for easy monitoring
- Low battery warning is displayed on the display



Applications

The Tekneka DOM100 is used in the following fields: testing the condition of metallic welding, graphite electrodes, and metal alloys, battery systems inter-cell connections, lightning conductor and transmitter aerial bonding, contact resistance testing on MV/HV switches and circuit breakers, resistance testing on bus bars, cables, and conductors.

Technical Specifications

Output Current	≤5A, 10A, 30A, 50A, 80A, 100A	
	Step Current: 2.5A, up to 87 current gears	
Measurement Range	≤5A : 1μΩ to 3500mΩ	±(0.5% of rdg+meas. range*0.2%+10μΩ)
	10A : 0.1μΩ to 200mΩ	
	30A : 0.1μΩ to 20mΩ	
	50A : 0.01μΩ to 15mΩ	±(0.1% of rdg+meas. range*0.2%+1μΩ)
	80A : 0.01μΩ to 10mΩ	
	100A : 0.01μΩ to 5mΩ	
Measurement Time	≤100A: fast mode (recommend), 10s, 20s, 30s, 40s, 50s, 60s	
Measurement Method	4 wire	
Resolution	0.01μΩ	
Input Voltage	Max 2.0V	
Display	5.6" industrial LCD	
Test Interface	I+, I-, U+, U-	
Data Storage	999 sets of data (auto save after the test)	
Safety Standard	IEC61010-1, CAT III 600V, JYG724-1991, JYG166-1993, DL/T967-2005	

DOM100 Micro Ohmmeter 100A

General Specifications

Printer	Printing real time & recorded data
Circuit Protection	Open circuit protection & overheat protection
Test Leads	Standard 3m with a resistance of less than 10mΩ
Temperature Protection	Installed
Operating Temperature	-10 ~ 40°C
Charging Time	3 hours
Power Supply	Built-in 12.6V 9000mAh rechargeable lithium battery
Charger	12.6V/2A
Dimension	Device: 188 x 85 x 312mm Kit: 550 x 420 x 215mm
Weight	Net: 2.2kg Gross: 9.3kg

NOTE: If the device is not used for an extended period of time, recharge the battery every two months.

Packing Includes

- Carrying Case
- Test Leads Set (Black & Red - 3m)
- Alligator Clip Set
- Self Testing Resistor
- Printer Set (Charger & Paper)
- Device Charger
- User Manual
- Test Report (Optional)



Ordering Info

- DOM100..... Micro-Ohmmeter
- P3051303..... Standard 3 Meter Test Leads Kit
- P3052301..... Device Charger
- P3052302..... 12.6V 9000mAh Rechargeable Lithium Battery
- P3052303..... Printer Kit