



PRO 7270

1A MICRO OHMS METER WITH DATA LOGGING

INTRODUCTION

The Metravi PRO 7270 1A Micro Ohms Meter with Data Logging is designed with microprocessor technology and 4-wire testing method, which ensures safety and delivers accurate and reliable testing results.

The Meter is mainly used to measure the conductor resistance of cables; the contact resistance of switch, connector, and relay; the riveting resistance of metal and to test the connection resistance between metallic components; the low resistance, the resistance of connection conductors between the ground poles of grounding grid; the contact resistance, etc.

Up to 499 groups of data can be saved and the resistance measurement range is 0.001mΩ~300.0kΩ. The PC software has multiple functions including data reading, data saving, report generation, and more.

It can measure a wide range of resistance values with high precision. It is a highly accurate portable resistance meter capable of measuring resistance levels from micro-ohm to mega-ohm.

It is ideal for testing and maintenance of large equipment, such as measuring winding and welding resistance of large motors and stators for hybrid and electric vehicles.

Widely used in :

- Telecommunications
- Power Distribution Systems
- New Energy Vehicles (EV and Hybrids)
- Petrochemicals
- Industrial Plant Grounding Systems, etc.



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FEATURES

- Micro-ohm level measurement, Resistance measurement range: 0.001mΩ ~ 300.0kΩ
- Resolution up to 1μΩ
- Accuracy can reach ±0.1%FS
- Measurement current ≤ 1A
- Data Logging for 500 groups
- Large LCD display
- Automatic shutdown, longer standby time
- Lithium battery can be used repeatedly
- Compact design, easy to carry and operate



RANGE & ACCURACY

RANGE	ACCURACY	RESOLUTION	MAX. TESTING CURRENT
0.001mΩ~10.000mΩ	±(0.1%FS+20dgt) (18°C ~ 28°C ; <75% RH)	0.001mΩ	1A
10.01mΩ~100.00mΩ		0.01mΩ	
100.1mΩ~1000.0mΩ		0.1mΩ	100mA
1.001Ω~10.000Ω		0.001Ω	10mA
10.01Ω~100.00Ω		0.01Ω	1mA
100.1Ω~1000.0Ω		0.1Ω	100μA
1.001KΩ~10.000kΩ		0.001kΩ	10μA
10.01KΩ~100.00kΩ		0.01kΩ	
100.1KΩ~300.0kΩ		0.1kΩ	3μA



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SPECIFICATIONS

FUNCTION	SPECIFICATIONS
Testing Method	4-wire method
Testing Current	$\leq 1\text{A}$
Open Circuit Voltage	$\leq 4.2\text{V}$
Power	Measurement power: 8W
Power Supply	DC 3.7V 3200mAh rechargeable lithium battery
Display	102mm \times 50mm (Length \times Width) Backlit LCD
Backlight	Adjustable backlight on grey screen (Suitable for use in dark environments)
Sampling Time	About 2 times/s
Interface	USB C-type
Data Logging	499 groups of data ("SAVE" appears to indicate data storage. "FULL" is displayed to indicate full storage.)
Over Range Indicator	"OL" is displayed
Battery Power Indication	Displaying battery power in real time (If the remaining battery power is less than 25% of fully-charged battery power, please charge the battery in time)
Auto Power-off	Powers off automatically within 15 mins. of inactivity "APO" symbol is displayed as an indication
Certifications & Standards	CE Certified IEC61010-1, Pollution Degree 2, indoor use JJG724-1991 "Verification Regulation of DC Digital Ohmmeter" JJG116-1993 "Verification Regulation of DC Resistors" "DL/T967-2005 Verification Regulation of Loop Resistance Tester and DC Resistance High-Speed Tester"
Operating Environment	$-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$; $< 75\% \text{ RH}$
Storage Environment	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$; $< 75\% \text{ RH}$
Test Lead Length	About 70cm (Red $\times 1$; Black $\times 1$)
Dimensions	161mm \times 117mm \times 63mm (Length \times Width \times Height)
Weight	Meter: about 590g (including battery) ; Test lead: about 145g



*Images and Specifications are subject to change without prior notice