

METRAVI PRO

DIGITAL MICRO OHMS METER PRO 8100A & PRO 8220A



INTRODUCTION

The Metravi Pro 8100A and Pro 8220A Micro Ohms Meters, also known as Circuit Resistance Testers are designed with a high-speed microcontroller, integrating high-precision A/D converters, digital measurement technology, anti-power frequency interference technology, and advanced programmable current source technology.

They generate ripple-free DC current using a large-capacity rechargeable lithium battery, with a maximum output of 220A. The output current can be finely adjusted in steps of 2.5A, offering up to 87 current levels for multi-level testing.

Additionally, it allows setting continuous high-current testing times (10s, 20s, 30s, 40s, 50s, 60s) and achieves fast test time of less than one second in rapid testing mode, ensuring high precision, stability, and intelligence even under strong interference conditions.

The instruments feature 5-inch colour LCD display with intuitive operation interface. It also comes equipped with standard resistors, allowing for self-checking of accuracy before formal testing.

FEATURES

- Wide measurement ranges
 - Pro 8100A up to 100A
 - Pro 8220A up to 220A
- Large data storage capacity
- Strong interference resistance
- Simple operation
- Portability due to compact size, and ease of carrying
- Can also be equipped with a printer for data printing



*Technical Specifications & Appearance are subject to change without prior notice

METRAVI PRO®

DIGITAL MICRO OHMS METER

PRO 8100A & PRO 8220A

TECHNICAL SPECIFICATIONS

RANGE & ACCURACY		
CURRENT	MEASURING RANGE	ACCURACY
220A Only for Pro 8220A	0.10μΩ~10.00μΩ	±(0.15%+0.5μΩ)
	10.0μΩ~100.0μΩ	±(0.15%+0.5μΩ)
	100μΩ~500μΩ	±(0.15%+5μΩ)
200A Only for Pro 8220A	0.10μΩ~10.00μΩ	±(0.15%+0.5μΩ)
	10.0μΩ~100.0μΩ	±(0.15%+0.5μΩ)
	100μΩ~600μΩ	±(0.15%+5μΩ)
100A	0.10μΩ~10.00μΩ	±(0.15%+0.5μΩ)
	10.0μΩ~100.0μΩ	±(0.15%+0.5μΩ)
	100μΩ~1000μΩ	±(0.15%+5μΩ)
	1.00mΩ~5.00mΩ	±(0.15%+0.05mΩ)
80A	1.00μΩ~10.00μΩ	±(0.15%+0.5μΩ)
	10.0μΩ~100.0μΩ	±(0.15%+0.5μΩ)
	100μΩ~1000μΩ	±(0.15%+5μΩ)
	1.00mΩ~10.00mΩ	±(0.15%+0.05mΩ)
50A	2.00μΩ~10.00μΩ	±(0.15%+1μΩ)
	10.0μΩ~100.0μΩ	±(0.15%+1μΩ)
	100μΩ~1000μΩ	±(0.15%+5μΩ)
	1.00mΩ~10.00mΩ	±(0.15%+0.05mΩ)
	10.0mΩ~15.0mΩ	±(0.15%+0.5mΩ)
30A	10.0μΩ~100.0μΩ	±(0.15%+1μΩ)
	100μΩ~1000μΩ	±(0.15%+5μΩ)
	1.00mΩ~10.00mΩ	±(0.15%+0.05mΩ)
	10.0mΩ~20.0mΩ	±(0.15%+0.5mΩ)
10A	20.0μΩ~100.0μΩ	±(0.5%+5μΩ)
	100μΩ~1000μΩ	±(0.5%+5μΩ)
	1.00mΩ~10.00mΩ	±(0.5%+0.05mΩ)
	10.0mΩ~100.0mΩ	±(0.5%+0.5mΩ)
	100m~200mΩ	±(0.5%+5mΩ)
Lsss than 5A	100μΩ~1000μΩ	±(1%+10μΩ)
	1.00mΩ~10.00mΩ	±(1%+0.05mΩ)
	10.0mΩ~100.0mΩ	±(1%+0.5mΩ)
	100mΩ~1000mΩ	±(1%+5mΩ)
	1000mΩ~3500mΩ	±(1%+10mΩ)





DIGITAL MICRO OHMS METER

PRO 8100A & PRO 8220A

GENERAL SPECIFICATIONS

FUNCTION	SPECIFICATIONS
Fuctions	High voltage switch, high voltage circuit breaker and other contact resistance test Metal welding component connection resistance test Metal conductor and other loop resistance test Precision micro ohms resistance test.
Power Supply	DC 11.1V 4200mAh Large capacity lithium battery
Test Mode	Four-wire method
Test Interface	I+(current positive); I-(current negative); U+(voltage positive); U-(voltage negative)
Current Output	Rough shift positions: ≤5A, 10A, 30A, 50A, 80A, 100A, 200A*, 220A*
Minimum Resolution	0.01μΩ
Testing Time	≤100A: Quick test, 10s, 20s, 30s, 40s, 50s, 60s >100A: Quick test
Display	5-inch Interactive Touchscreen (854x 480 px) full colour 108×65mm LCD display
Smartphone App	Yes, Bluetooth connection
Computer Host	Yes, USB cable connection
Printer	Optional - to print test data
Data Logging	999 groups with Data Lookup
Battery Voltage	Battery power is displayed in real time
Auto Shutdown	You can set the automatic shutdown between 1 to 30 minutes
Safety and Certifications	IEC61010-1 CATIII 600V Pollution Level 2 JJG166-1993 "DC Resistor Verification Regulations" DL/T967-2005 "Loop Resistance Tester and DC resistance rapid tester verification regulations"
Working Environment	-10°C ~ 40°C; below 70%RH
Storage Environment	-20°C ~ 60°C; below 70%RH
Dimensions	229mm × 166mm × 74mm
Weight	1.4kg (including battery)
Accessories	Test Leads, USB Cable, Software CD, Charger, User Manual, Carrying Case
Printer (optional)	1 set (printer, printer charging cable x1, printing paper roll x1, printer manual x1)

* Only for Pro 8220A

*Technical Specifications & Appearance are subject to change without prior notice