METRAVI PRO ®

PRO 8100 / PRO 8220
DIGITAL MICRO OHMS METER

FEATURES

The **Metravi PRO 8100** and **PRO 8220 Micro Ohms Meters** are designed to measure the **Contact Resistance** of various high voltage switches and circuit breakers, connection resistance of metal welding components, metal conductor **Loop Resistance** and precision **Micro Ohm Resistance**.

With a high speed micro-controller at the core, the device combines high precision A/D convertor, digital measurement technology, anti-power frequency interference technology, and advance program-controlled current source technology, so that the built-in, high capacity, rechargeable Lithium batteries product no ripples.

Maximum output is 100A DC (PRO 8100) and 220A DC (PRO 8220), and the output current can be fine-tuned every 2.5A steps, up to 87 current gears, to meet the Multi-current Gear Test.

At the same time, the user can set the time (10s, 20s, 30s, 40s, 50s, 60s), continuously output large Current Test and can test with high precision, high stability and high intelligence, even in strong interference environments.

The instruments feature circuit protection and overheat protection. They come with 5.6 inch large, colour, LCD displays, which are clear and intuitive. Equipped with standard resistors, the accuracy of the instruments can be self-inspected before the formal test.

Wide-range, large Data Storage capacity, strong anti-interference ability and simple operation make these handheld, small size, easy-to carry devices, valuable tools for the field. They can also be equipped with printers for data printing
(optional).

MODELS

MODEL	MAX. TEST CURRENT	NOTE
PRO 8100	100A	
PRO 8220	220A	Current >100A supports only FAST Mode

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GENERAL SPECIFICATIONS

Measurement Method	: 4-wire measurement
Display	: 5.6-inch industrial colour LCD with high-brightness
Test Interface	: I+, I-, U+, U
Output Current	: ≤5A, 10A, 30A, 50A, 80A, 100A, 200A (PRO 8220), 220A (PRO 8220)
Measurement Range	: ≤5A:1µΩ-3500mΩ; 10A:0.1µΩ-200mΩ; 30A:0.1µΩ-20µΩ; 50A:0.01µΩ-15mΩ; 80A:0.1µΩ-1mΩ; 100A:0.01µΩ-5mΩ; 200A:0.01µΩ-600uΩ (PRO 8220); 220A:0.1µΩ-50uΩ (PRO 8220)
Resolution	: 0.01µΩ
Accuracy	: 30A~220A ±(reading*0.1%+measurement range*0.2%+1µΩ) 10A or less than 5A ±(reading*0.5%+measurement range*0.2%+10µΩ)
Measurement Time	: ≤100A fast mode (recommended), 10s, 20s, 30s, 40s, 50s, 60s >100A fast mode
Printer	: Optional, press the print button to print the test results
Data Storage	: After the completion of the test, the data is automatically and cyclically saved with up to 999 sets of data stored.
Test Leads	: Standard Length: 3m (5m is optional), connecting the test leads to the current port and voltage port with a resistance of less than 10mΩ
Data Delete	: Select Format Memory in the setting interface to delete all data
Data Query	: Enter the Data Query interface, press the up, down, left, or right keys to browse the stored data
Automatic Shutdown	: Battery shuts down after 15 mins. of non-operation
Back Light	: Adjustable High, medium & Low brightness
Working Current	: 230mA in non-test state, Current can be set in test state.
Circuit Protection	: Open-circuit protection, Over-heat protection
Temperature Protection	: By temperature monitoring
Power	: Built-in 12.6V 9000mAh rechargeable lithium battery
Charger	: 12.6V/2A
Working Environment	: -10°C - 50°C, below 90%RH, no condensation
Storage Environment	: -10°C - 60°C, below 70%RH
Safety Standards	: IEC61010-1, CATIII 600V, Pollution Level 2, JJG724-1991 Verification Regulation of DC Digital Ohmmeter, JJG166-1993 Verification Regulation of DC Resistors, DL/T967-2005 Verification Regulation of Loop Resistance Tester and DC Resistance High-speed Tester
Dimensions / Weight	: L 188mm × W 85mm × H 312mm / 2.2kgs (only instrument)

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