



GPS

8815C/E



Encompassing all the features required in an ohm-meter in one practical instrument, offering flexibility in measurement with high accuracy and exceptional functionality

The GPS-8815C/E DC Resistance Tester is a benchtop instrument with fully automated real-time detection controlled by a high-performance ARM microprocessor. The instrument has an accuracy of 0.05% and a measurement range of $1\mu\Omega\sim 20M\Omega$ (0.1%/ 30K Ω for 8815E). The resistance value is displayed in 5 bits with 30000 readings and a maximum sampling speed of 7ms. The instrument has built-in temperature compensation interface to compensate for errors due to temperature.

The instrument comes standard with RS-232 interface, using SCPI (Standard Command for Programmable Instrument standard command set) and Modbus protocol (Modbus has become the national standard GB/T19582-2008) applied to automatic sorting system to complete automatic pipeline test. Communicate with computer, PLC or WINCE device to efficiently perform remote control and data acquisition functions.

Key Features

- Temperature compensation function
- High current test function (open circuit voltage <20mV)
- Alarm and display are adjustable
- Compatible with the SCPI command set
- Beep alarm
- Comparator sorting
- Keyboard lock function
- Data hold function

Applications

- Suitable for all kinds of high, middle and low resistor
- Contact resistance of the switches
- Contact resistance of all kinds of connector
- Transformer, inductor, motor, deflection coil winding resistance
- Enamel-insulated wire resistance.
- Relay/switch connector contacts
- Solder point contact resistance
- Metal riveting resistance for cars, boats and airplanes
- Printed plate line and hole resistance

www.gpslimited.com/8815series
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Technical Specifications

DC RESISTANCE METER

Model	8815C	8815E
Parameter	DC Resistance	
Accuracy	0.05%	0.1%
Measurement Range	1μΩ ~ 20MΩ	1μΩ ~ 30KΩ
Signal Source	I-max : <1A	
Range	Auto & manual, 10 ranges	Auto & manual, 7 ranges
Speed	140 times/s, 67 times/s, 35 times/s, 12 times/s, 2 times/s	12 times/s, 2 times/s
Display	show, ΔABS, Δ% sorting result 30'000 Max display	
Adjustment	Short-circuit reset full range	
Comparator	Built-in 14 bin comparators, display & output BIN1~BIN10, HIGH, IN, LOW beep	1 group of comparator and beep
Trigger	Internal, manual, external, remote trigger	Internal, manual, remote trigger
Interface	RS232, Handler (PLC)	RS232 interface
Temperature Compensation	Accuracy: 0.2°C Test range : 0~80°C	
Test Lead Method	4 terminal shielding (2 check terminal & 2 driving terminal), external shielding ground section	
Other Functions	4 colour VFD display, keyboard lock, data hold function	

Standard Accessories

- Kelvin test clip
- RS232 cable
- Software
- Calibration certificate
- Power cord
- User manual

Input Voltage

198 – 240 VAC, 50Hz/15VA

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-8815C	Digital Micro-Ohm Meter 1μΩ ~ 20MΩ, accuracy: 0.05%	621555
GPS-8815E	Digital Micro-Ohm Meter 1μΩ ~ 30KΩ, accuracy: 0.1%	621568
CO4A	Cable Clamp	902655

Dimensions

216 x 88 x 323mm / 8.5 x 3.5 x 12.7" (w x d x h) approx.

Mass

4kg/8.8lbs approx.

Services

1-year warranty (subject to product registration with GPS Ltd)

Visit www.gpslimited.com/register-product
Service and calibration available.

Please contact for more information

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