



# GPS-8815F GPS-8815G

## DC Resistance Tester with fully automated real-time detection controlled by a high-performance microprocessor

The GPS-8815 DC resistance meter is ideally suited for measuring contact resistance of relays, switches, and PCB traces, typically outside the resistance range of multimeters. The 8815 is equipped with an intuitive front panel complete with a keypad and a vivid 5-inch colour touch screen. The touch screen and keys both provide a convenient interface for setting parameters quickly and precisely. Additionally, it supports fast cycle times for production automation and includes a BIN comparator function.

The 8815 allows measurement of low resistivity materials with offset voltage compensation to reduce the influence of thermal EMF. The temperature compensation function corrects for ambient temperature changes that cause different resistance measurements of the same component.



### Key Features

- Maximum measuring current: 10A
- Measuring range: 0.01 $\mu\Omega$  to 20M $\Omega$  (dependant on model)
- 5-inch colour touch screen
- Temperature measurement with correction
- Manual or auto ranging
- 5<sup>4/5</sup> digit display
- Bi-directional current test and pulse test method to avoid the test loop heat affecting test accuracy
- BIN comparator function
- Standard RS232, USB and LAN interfaces for data communication and remote control
- Screen capture to USB drive

### Applications

- electrical testing
- circuit maintenance
- component verification
- heater industry
- transformer industry
- and many more...

[www.gpslimited.com/8815](http://www.gpslimited.com/8815)  
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## Technical Specifications

DC Resistance Tester		
Model	GPS-8815G	GPS-8815F
Parameter	DC resistance	
Accuracy	0.01% +/- 3 digits	
Measurement range	0.01 $\mu\Omega$ ~ 300 $\Omega$	0.1 $\mu\Omega$ ~ 3000 $\Omega$
Signal source	Maximum current: < 10A    current mode: pulse current, positive and negative current (The adjustable test current of GPS-8815F in the range of 30m $\Omega$ is 1~10A)	
Range	6 ranges manual and automatic	
Speed	Adjustable: 10 times/sec or 1 time/sec	
Result display	Show / $\Delta$ ABS / $\Delta$ % and result sorting	
Max display	500'000 counts	
Calibration	Open circuit and short circuit reset	
Trigger	Internal, Manual, External	
Temperature compensation	Accuracy: 0.2°C Range: 0~80°C	
Test terminal	4 terminal test	
Comparator	Upper limit/ lower limit / close the comparator	
Interface	RS232/RS485/LAN/USB communication port/USB flash drive port	
Screen	5-inch colour touch screen	
Other functions	Keypad lock and data hold function	

### Standard Accessories

Kelvin clip test cable  
Temperature probe  
RS232 communication cable

### Optional Accessories

4-terminal clamp fixture

### Power Supply

90~250VAC 50/60Hz

### Power Consumption

Max. 15VA

## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-8815G	High Precision DC Resistance Meter (Ohmmeter) 0.01 $\mu\Omega$ ~ 300 $\Omega$	618815
GPS-8815F	High Precision DC Resistance Meter (Ohmmeter) 0.1 $\mu\Omega$ ~ 3000 $\Omega$	628815

### Mass

2.75kg/6.0lbs approx.

### Dimension

Main unit: 300(L)×264(W)×107(H)mm

### Operating

Temp -10°C to 50°, humidity RH<85%

### Storage

Temp -15°C to 55°, humidity RH<90%

### Services

1-year warranty (subject to product registration with GPS Ltd)  
Please contact for more information.

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