

GPS-

4660/4660B



A rugged, low resistance tester designed for both plant maintenance and field use.

The GPS-4660 micro-ohmmeter provides reliable, accurate measurements due to its test current of up to 10A (20A for model 4660B). This accuracy is ensured through use of the 4-wire method which eliminates the effects of the leads' resistances and the contact resistances and the possibility of reversing the polarity of the measurement current, thus eliminating the effects of possible interference voltages. Measurements accuracy is guaranteed by the state-of-the-art system for signal amplification, offset-free and with long-term stability. The equipment has a USB interface that allows to download the measured values to a computer for their later analysis.

Key Features

- Microprocessor controlled
- Temperature compensation
- Resolution: 0.1 $\mu\Omega$
- Resistance reading: up to 50 K Ω
- Direct reading (Up to 5 digits)
- Up to 10 A current (20 A for model 4660B)
- Powered by rechargeable battery
- Kelvin-type (4-wires) measurement
- True LCD touchscreen
- Remote control through an Android app

Applications

- transformer winding resistance
- grounding continuity resistance
- cable & conductor resistance
- contact resistance of switches, connectors and relays
- metal riveting resistance
- winding resistance of coil, motor and transducer
- connection resistance between metal components
- welding point resistance

www.gpslimited.com/4660
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com

DC CURRENT RESISTANCE TESTER 10A/20A

Technical Specifications

GPS-4660 Digital Micro-Ohmmeter	
Test currents	4660: 10A,1A, 100mA, 10mA, 2mA, 1mA, Automatic
	4660B: 20A, 10A, 1A, 100mA, 10mA, 2mA, 1mA, Automatic
Resistance ranges	1.0 $\mu\Omega$ ~ 1000.0 $\mu\Omega$ @ 20 A (model 4660B only), 0.1 $\mu\Omega$ resolution 10.0 $\mu\Omega$ ~ 1000.0 $\mu\Omega$ @ 10 A, 0.1 $\mu\Omega$ resolution 1.000m Ω ~ 100.000m Ω @ 10 A, 1 $\mu\Omega$ resolution 100.00m Ω ~ 1000.00m Ω @ 1 A, 10 $\mu\Omega$ resolution 1.000 Ω ~ 10.000 Ω @ 100 mA, 1m Ω resolution 10.00 Ω ~ 100.00 Ω @ 10 mA, 10m Ω resolution 100.0 Ω ~ 1000.0 Ω @ 2 mA, 0.1 Ω resolution 1.00k Ω ~ 50.00k Ω @ 1 mA, 0.01k Ω resolution
Accuracy of test current	$\pm 3\%$
Measurement principle	Precision 4-wire method, 2 channel A/D detecting simultaneously
Basic accuracy of resistance measurement	$\pm 0.2\%$ of reading ± 2 digits
Temperature measurement	Range: -55 $^{\circ}\text{C}$ ~ 125 $^{\circ}\text{C}$; Accuracy: $\pm 0.5^{\circ}\text{C}$
Memory Capacity	600 groups (data will not be lost after power failure or battery replacement)
Advanced features	Alarm setting, Alarm indication, Test indication, Charge indication, Data Hold, Backlight adjust, Clock function, Discharge function
Conversion Resistance Calculation	Calculated according to the temperature and material of the tested product.
Protection level	IP65 (case closed)
Safety Standard	IEC61010-1, CAT III 600V, Pollution Level 2, JJG724-1991, JJG166-1993, DL/T967-2005
Power supply	4660: DC 7.4V 5200mAh, rechargeable lithium battery, full charge about 8.4V 4660B: DC 7.4V 7800mAh, rechargeable lithium battery, full charge about 8.4V
Screen	480 x 854 true colour LCD touch-screen
Accessories	
Standard Accessories	Test wires: 2PCS, Charger, Temperature sensor, USB communication cable, Tool bag

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-4660	DC Current Resistance Tester (Micro-ohmmeter 10A)	466010
GPS-4660B	DC Current Resistance Tester (Micro-ohmmeter 20A)	466120

Mass
4.6kg/10.1lbs approx. (main unit and accessories)

Dimension
Main unit: 280(L) \times 260(W) \times 160(H)mm

Operating
Temp -10 $^{\circ}\text{C}$ to 40 $^{\circ}$, humidity RH<80%

Storage
Temp -10 $^{\circ}\text{C}$ to 60 $^{\circ}$, humidity RH<70%

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

www.gpslimited.com/4660
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com