



# Handheld Multimeters



## GPS-179 / GPS-176 / GPS-170 PROFESSIONAL RUGGED DESIGN AUTO-RANGING MULTIMETERS

These meters have the features needed to trouble shoot most electrical, electro-mechanical and heating and ventilation problems. They are simple to use and have significant features, more measurement functions, conforms to the latest safety standards, and a much larger display that's easier to view. They conform to EN61010-1 CAT IV 600V, CAT III 1000V input protection on all ranges, 10A/1000V & 0.5A/1000V fuses protection on current ranges. The Dust and Waterproof IP67 makes it a tough instrument to be used in the most abusive environments.

### Key Features

- Conforms to EN61010-1 CAT IV 600V, CAT III 1000V
- 1000V protection on all ranges
- 10A/1000V and 0.8A/1000V fuses makes the instrument completely safe in all environments
- 4-20mA process loop measurements with % reading (GPS-179)
- Battery condition indicator (GPS-179/176)

### Ideal for

- Outdoor measuring
- Circuit measurements
- Wind power, PV power and other renewable energy equipment
- Automotive electronics/electric car testing
- Electric power systems
- Industrial scenarios of electric debug testing and measuring
- Education and science research
- Plant automation systems

## Technical Specifications

Model	GPS-179	GPS-176	GPS-170
Digital Display Counts	40,000	6,000	4,000
True-RMS measurement	YES	NO	NO
Analogue Bar graph	YES	YES	NO
1000V protection in all Ranges	YES	YES	YES
4-20mA process loop measurement	YES	-----	-----
Data Hold/MAX/MIN	YES	YES	HOLD function
Relative mode	YES	YES	YES
PEAK capture	YES	NO	NO
Backlight display	YES	YES	NO
Wide capacitance range	40mF	1000µF	100µF
IP67 waterproof and Auto power off	IP67 /Auto power off	IP67 /Auto power off	Auto power off
Double moulded plastic housing	YES	YES	YES
DC Voltage / Resolution / Accuracy	1000V / 10µV / ±0.06%	1000V / 0.1mV / ±0.5%	600V / 10µV / ±0.5%
AC Voltage / Resolution / Accuracy	1000V / 10µV / ±0.1%	1000V / 0.1mV / ±0.8%	600V / 10µV / ±1.2%
DC Current / Resolution / Accuracy	10A / 0.01µA / ±1.0%	10A / 0.1µA / ±1.2%	10A / 0.1µA / ±2.5%
AC Current / Resolution / Accuracy	10A / 0.01µA / ±1.5%	10A / 0.1µA / ±1.8%	10A / 0.1µA / ±3.0%
Resistance / Resolution / Accuracy	40MΩ / 10mΩ / ±0.3%	40MΩ / 0.1Ω / ±0.8%	40MΩ / 0.1Ω / ±0.8%
Duty cycle	99.9%	99.9%	99.9%
Frequency	10MHz	10MHz	10MHz
Capacitance	40mF / 10pF	1000µF	100µF
Temperature	760°C	760°C	760°C
Diode check/ Continuity test	YES/YES	YES/YES	YES/YES
Fuse	10A/1000V & 0.5A /1000V	10A/1000V & 0.5A /1000V	-----

### Standard Accessories

Test leads  
9V Battery  
Type K temperature probe  
Soft carrying case  
User manual



## General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-170	4,000 Count Handheld Auto-Ranging Multimeter	400170
GPS-176	6,000 Count Handheld Auto-Ranging Multimeter	402176
GPS-179	40,000 Count True-RMS Handheld Auto-Ranging Multimeter	404179

### Dimensions

GPS-170: 150 x 70 x 48mm / 6 x 2.7 x 1.9" (w x d x h) approx.  
GPS-176: 183 x 82 x 55mm / 7.2 x 3.2 x 2.1" (w x d x h) approx.  
GPS-179: 183 x 82 x 55mm / 7.2 x 3.2 x 2.1" (w x d x h) approx..

### Mass

GPS-170: 0.25kg/0.6lbs approx.  
GPS-176: 0.36kg/0.8lbs approx.  
GPS-179: 0.5kg/1.1lbs approx.

### Services

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

Visit [www.gpslimited.com/register-product](http://www.gpslimited.com/register-product)  
Service and calibration available.

Please contact for more information

[www.gpslimited.com/MultiMeter](http://www.gpslimited.com/MultiMeter)  
For all enquiries, Tel: +44 (0) 208 964 3600  
Email: [info@gpslimited.com](mailto:info@gpslimited.com)