

# GPS-800 series Portable Oscilloscope



## Exceptional waveform viewing and measurements in a compact, lightweight package

Portable oscilloscopes are used in many field troubleshooting applications from electrical and electro-mechanical to electronic and industrial control systems. The GPS-800 series provides outstanding Two Channel Color DSO Oscilloscope full-color performance plus added functions of a full featured digital multimeter to tackle tough environments with the performance you expect. Use the built-in *Waveform recorder* and *TrendPlot* software to assist in documenting your results

### Key Features

- Dual-input combination of oscilloscope, multimeter and recorder in one unit
- 5.7" inch TFT color LCD display
- Maximum 200MHz bandwidth
- 1GSa/s real time sampling rate
- 2Mpts memory depth
- High resolution multimeter provides measurements of DCV, ACV, DCI, ACI, Resistance, Diode, Capacitance and Continuity
- Supports USB storage and updates; PC remote

### 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-820	GPS-810	GPS-806
Bandwidth	200 MHz	100 MHz	60 MHz
Rise time	≤1.75 ns	≤3.5 ns	≤5.8 ns
Real time sampling rate	500 MSa/s	1 GSa/s	
Equivalent sampling rate	50 GSa/s		
Vertical sensitivity	2 mV – 100 V/div		
Time base range	2.5 ns – 50 ns/div Scan:100 ms – 50 s/div		5 ns – 50 s/div
Memory depth	32 Kpts	2 Mpts	
Triggering	Edge, Pulse, Video, Slope, Alternative 8		
Vertical resolution Triggering	bit		
frequency counter Data	6 digits		
Recorder	7 M points		
Trend plot	800 K/CH		
Interface	USB Device, USB Host		
Math operation	+, -, *, /, FFT		

## Standard Accessories

9V/ 4A Power Adapter; two passive probes (1:1 / 10:1); probe compensator adaptor; EasyScope® software; Multimeter test lead; USB cable; application/driver CD, carrying case

## Battery

7.4 VDC, 5000mAh

Operating: 0~40 deg C

Storage -20~70 deg C

85% RH, 40 deg C

## Safety

CE rated

EN:61010-1

## Input Voltage

Via BNC is up to CATII 300V and CAT III 150V; Standard probe: 10X CATII 400V; Optional probe: 10X CATII 1000V and 10X CAT II 600V Oscilloscope and multimeter safety grade is up to CATII 600V and CAT III 300V

## GPS-800 series Optional Accessories

Code	Item	Part Number
ISFE	Isolated Front End (Isolation between the measured signal and ground)	270063
CP4020	Bandwidth: 100 KHz; Maximum continuous current 20 Arms; Peak current 60 A;	190082
CP4070	Bandwidth: 150 KHz; Maximum continuous current 70 Arms; Peak current 200 A;	190083
CP5030	Bandwidth: 50 MHz; Maximum continuous current 30 Arms; Peak current 50 A;	190055
CP5150	Bandwidth: 12 MHz; Maximum continuous current 150 Arms; Peak current 300 A;	190058
HPB4010	High Voltage Probe Bandwidth: 40 MHz; Maximum measurement voltage DC: 10 KV; AC(rms): 7 KV (sine); AC (Vpp): 20 KV (Pulse); attenuation ratio1:1000; Accuracy:≤3%	190019
DPB4080	Bandwidth: 50 MHz; Maximum input differential voltage 800 V (DC + Peak AC)	190032
DPB5700	Bandwidth: 70 MHz; Maximum input differential voltage 7000 V (DC + Peak AC);	190045

## Dimensions

163 x 260 x 53mm

6" x 10" x2" (w x d x h)  
approx

## Mass

1.5kg/3.3lbs approx

## Services

1 year warranty (subject to product registration with GPSLtd)

Visit [www.gpslimited.com/register-product](http://www.gpslimited.com/register-product)

Service and calibration available. Please contact for more information

Part Number  
930119

[www.gpslimited.com/800series](http://www.gpslimited.com/800series)

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