



GPS

800 series



Figure 1 Model shown GPS-810

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 Colour DSO Oscilloscope full-colour 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. The oscilloscope includes a rechargeable lithium ion battery for up-to 5 hours' battery life,

Key Features

- Dual-input combination of oscilloscope, multimeter and recorder in one unit
- 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 control and PictBridge printing

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

Standard Accessories

Two passive probes (1:1 / 10:1)
 Probe compensator adaptor
 EasyScope© software
 Multimeter test lead; USB cable; application/driver CD

Power

100V-240V 50/60Hz

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

Languages

English, Arabic, French, German, Russian, Portuguese Spanish, Japanese, Korean, Italian

EMC

2004/108/EC Directive
 Applicable standards EN 61326-1:2006 EN 61000-3-2:2006 + A2:2009 / EN 61000-3-3:2008

Safety

2006/95/EC Low Voltage Directive
 EN 61010-1:2010/EN 61010-031:2002+A1:2008

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
GPS-806	7" TFT LCD, 70MHz Digital Storage Oscilloscope, 2 Channels	180806
GPS-810	7" TFT LCD, 100MHz Digital Storage Oscilloscope, 2 Channels	180815
GPS-820	7" TFT LCD, 150MHz Digital Storage Oscilloscope, 2 Channels	180820

Range of probes available - please contact for more details

Dimensions

163 x 260 x 53mm / 6 x 10 x 2" (w x d x h) approx.

Mass

1.5kg/3.3lbs approx.

Operating

0°C~40°C
 85%RH, 40°C
 ≤3000m

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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