



GPS-

800X/1000X

A range of handheld oscilloscopes that deliver benchtop performance in palms of your hands

The series utilises a new generation of SPO (Super-Phosphor Oscilloscope) technology that provides excellent signal fidelity and performance. It comes with a vertical input range from 2 mV/div to 100 V/div, and a max offset range up-to to 400 V. The innovative digital trigger system delivers high sensitivity and low jitter, and a waveform capture rate of up-to 400,000 frames/sec. The scope also employs a 256-level intensity grading display function and a colour temperature display mode for clarity and fast fault identification. multiple powerful triggering modes including serial bus triggering as well as free decoding for IIC, SPI, UART, CAN, LIN bus types.

These models also include History waveform recording, and sequential triggering that enable extended waveform recording and analysis. Another powerful addition is the new 1-million-point FFT math function that gives very high frequency resolution when observing signal spectra. The new digital design also includes a hardware co-processor that delivers measurements quickly and accurately without slowing acquisition and front panel response. The GPS-1000X series features full isolation between the two oscilloscope channels, one multimeter channel, power adapter and the USB host/device port. The full isolation makes it ideal for both laboratory and floating signal measurement because it reduces the risk of accidental short-circuits.



Key Features

- Integrated oscilloscope, serial trigger and decoder, spectrum analysis, data logger, and multimeter functions into a convenient and portable design
- 100 MHz or 200 MHz bandwidth models
- Sample rate of 1 GSa/s (single-channel)/500 MSa/s (two-channels)
- Record length up to 12 Mpts.
- Isolation voltage: CATIII 600 Vrms, CATII 1000 Vrms (GPS-1000X series only)
- Waveform recording up to 22 hours
- Hardware-based true RMS multimeter
- IP51 dust/water resistance certified

Ideal for

- Outdoor applications like wind power measurement
- Emerging energy equipment testing
- Automotive electron and electric automobile measuring
- and electrical system debugging

www.gpslimited.com/800X
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com

Technical Specifications

Model	GPS-810X	GPS-820X	GPS-1102X	GPS-1202X
Bandwidth	100 MHz	200 MHz	100 MHz	200 MHz
Sample rate (Max.)	Two-channel share a single 1 GSa/s ADC. When two channels are enabled, each channel has a maximum sample rate of 500 MSa/s. When a single channel is active, that channel has a sample rate of 1 GSa/s			
Channels	2 analog oscilloscope channels, 1 multimeter channel			
Memory depth (Max.)	6 Mpts/CH [dual-channel mode] 12 Mpts/CH [single channel mode]			
Waveform capture rate (Max.)	100,000 wfms/s (normal mode), 400,000 wfms/s (sequence mode)			
Trigger type	Edge, Slope, Pulse Width, Window, Runt, Interval, Dropout, Pattern, Video			
Serial Trigger and decoder	IIC, SPI, UART, CAN, LIN			
Data Logger (Recorder)	Sample Logger: The Max sample rate is 25 kSa/s, the Min sample rate is 1 Sa/s Measurement Logger: The Max interval is 10 minutes; the Min interval is 0.1second. Max items of logging are 4			
I/O	USB Host, USB Device			
Max input Voltage (Scope)	CAT II 300 Vrms Between BNC Signal and Protecting Earth CAT II 30 Vrms Between BNC GND and Protecting Earth CAT II 300 Vrms Between BNC Signal and BNC GND		CAT III 600 Vrms, CAT II 1000 Vrms Between BNC Signal and Protecting Earth CAT III 600 Vrms, CAT II 1000 Vrms Between BNC GND and Protecting Earth CAT III 300 Vrms Between BNC Signal and BNC GND	
Max input Voltage (Meter)	CAT III 300 Vrms, CAT II 600 Vrms		CAT III 600 Vrms, CAT II 1000 Vrms	
Probe	PP510	PP215	PB925	
Display	5.6-inch TFT-LCD (640x480)			

Standard Accessories

USB cable (1)
Passive probe (2)
Multimeter test lead (1)
Power adaptor (1)
Battery 6900 mAh (1)
Current measurement adaptor 600mA (1)
Current measurement adaptor 10A (1)

IP Rating

IP51

General Specifications

Dimensions

276x 168 x 68mm (w x d x h) approx.

Mass

1.75kg (main unit) / 3.5kg (with packaging)

Operating:

0°C ~ 40°C (storage -20°C to 60°C)
Relative humidity ≤ 85%
2000m (operating), 5000m (non-operating)

Standard

Meets EMC directive (2014/30/EU), meets or exceeds IEC 61326-1:2012/EN61326-1:2013 (Basic)

Safety

UL 61010-1:2012/R:2018-11; CAN/CSA-C22.2 No. 61010-1:2012/A1:2018-11. UL 61010-2-030:2018; CAN/CSA-C22.2 No. 61010-2-030:2018. UL 61010-2-033:2020.

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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