

# GPS LTD. Oscilloscope

8 models available

140,000 wfs/s capture rate



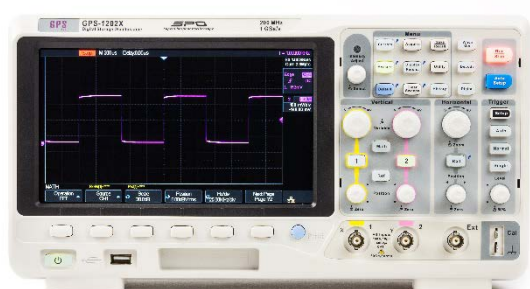
Model	Bandwidth (MHz)	Channels	Order Code#
GPS-2072X	70	2	195473
GPS-2102X	100	2	195624
GPS-2202X	200	2	195675
GPS-2302X	300	2	195748
GPS-2074X	70	4	197033
GPS-2104X	100	4	197382
GPS-2204X	200	4	197734
GPS-2304X	300	4	197944

## GPS-2000X series

## SPO technology

The 2000X provides some of the most advanced and reliable signal capturing options of any oscilloscope in the market and certainly in its price range. Using a hardware based zoom function in conjunction with a record length of up to 140Mpts, a higher sampling rate can be deployed to capture more of the signal and the area of interest can be focused on with ease. The history function is easily accessed and gives the user the automatically recorded playback of the waveform.

- New generation of SPO technology
- 2 GSa/s sample rate
- Supports 256-level intensity grading and colour display
- Record length up to 140Mpts
- Digital triggering system
- Large 8-inch display (800x480)
- Intelligent trigger: Edge, Slope, Pulse, Window, Runt, Interval, Dropout, Pattern, and Video (HDTV support)
- Serial bus triggering and decode, supports protocols I2C, SPI, UART, RS232, CAN and LIN
- Low background noise, supports 1mV/div to 10V/div scales
- Segmented acquisition mode
- Optional accessories include 16 digital channels MSO and 25MHz waveform generator



*Includes waveform generator and 16 digital channels (MSO) with logic probe*

Model	Bandwidth (MHz)	Channels	Order Code#
GPS-1102XS	100	2	190172
GPS-1202XS	200	2	194500

## GPS-1000XS series

## SPO technology

This series comes supplied as standard with two popular options: 16 channel MSO (incl. logic probe) and a 25MHz function/arbitrary waveform generator, making it an all-in-one value package. The most commonly used functions can be accessed with its user-friendly one-button design. Adopting the latest SPO technology with its excellent signal fidelity, background noise is lower than similar products in the industry.

- New generation of SPO technology
- Real-time sampling rate up to 1GSa/s
- Record length of 14Mpts
- Waveform capture rate up to 60,000 wfs/s
- Supports 256-level intensity grading and colour temperature display
- Intelligent trigger: Edge, Slope, Pulse, Window, Runt, Interval, Time out (Dropout), Pattern, Video (HDTV support)
- Hardware based high speed pass/fail function
- Optional serial bus triggering and decode, supports protocols I2C, SPI, UART/RS232
- Low background noise, supports 500μV / div to 10V / div voltage scales
- 10 types of one-button shortcuts

Visit online for our free quick-start manual guides at [www.gpslimited.com](http://www.gpslimited.com)

6 models available

1GS/s with all 4 channels in use



Model	Bandwidth (MHz)	Channels	Order Code#
GPS-1102C	100	2	160002
GPS-1202C	200	2	160036
GPS-1302C	300	2	160088
GPS-1104C	100	4	160104
GPS-1204C	200	4	160208
GPS-1304C	300	4	160312

### GPS-1000C series

This series delivers performance and value in 2-channel and 4-channel configurations. With bandwidth from 100 MHz to 300 MHz and 2 GSa/s sample rates, these oscilloscopes offer 24 kPts/Ch waveform memory, 32 automatic measurements, and advanced triggering capabilities including math functions. Engineered to allow you to see more of your signal under test with a widescreen 7" TFT display

- Bandwidth up to 300 MHz
- 2 GSa/s sample rate
- 4-channel acquisition (on select models)
- Large 7" widescreen colour display
- 32 automatic measurements
- FFT plus four additional math functions
- Built-in context sensitive help system
- 50  $\Omega$  input coupling
- PC software that lets you remotely control the oscilloscope and capture, save, and analyse waveform data
- Front and rear panel USB host port for convenient storing and recalling of waveform data, setups, and screenshots on a USB flash drive
- Standard LAN (supports SCPI) and USB device port (USBTMC compliant) for remote PC control Multiple interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11), Pass / Fail



2 Mpts memory depth offers higher sampling rates over a longer period of time allowing the scope to function at its highest capabilities

Model	Bandwidth (MHz)	Channels	Order Code#
GPS-1072B+	70	2	300072
GPS-1102B+	100	2	300450
GPS-1202B+	200	2	300670

### GPS-1000B+ series

Delivers performance and value, all in one portable solution. Maximise productivity using extensive features such as digital filtering, waveform recorder, pass/fail limit testing, and automatic measurements. These oscilloscopes offer powerful tools in a small affordable package with deep waveform memory up to 2 Mpts plus LAN and USB PC interface.

- 150 MHz, 100 MHz, 70 MHz bandwidth models
- Real-time sampling rate up to 1 GSa/s, Equivalent-time sampling rate up to 50 GSa/s
- Memory Depth up to 2 Mpts
- Trigger types: Edge, Pulse, Video, Slope, Alternate
- Waveform math functions: +, -, \*, /, FFT
- 6-digit frequency counter
- Supports Multi-language display and embedded online help
- Screensaver from 1 minute to 5 hours
- Digital filter and waveform recorder function
- Shortcut storage function key
- 7 inch TFT-LCD display with 800 \* 480 resolution
- Multiple interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11), Pass / Fail

For full technical information, please visit [www.gpslimited.com](http://www.gpslimited.com)

**A 3-in-one oscilloscope**

**Compact, portable & lightweight**

### GPS-800 series

### Handheld range

The series can provide floating measurement and recorder capabilities with a built-in digital multimeter (DMM), all in one portable and lightweight package. These versatile 60 MHz and 100 MHz bandwidth scopes offer 1 GSa/s sample rates, 2 Mpts waveform memory, 32 automatic measurements, and multiple recording functions to capture transient or long-term signal behavior.

- 60 MHz, 100 and 200MHz bandwidth
- 1 GSa/s sample rate
- 2 Mpts deep memory
- 32 automatic measurements
- FFT plus four additional math functions
- Built-in 6000-count DMM measures DC/AC voltage, DC/AC current, resistance, capacitance, diode, and continuity test
- Dedicated current measurement terminals
- Recorder and trend plot functions to log data
- PC software that lets you remotely control the oscilloscope and capture, save, and analyze waveform data
- USB host port for convenient storing and recalling of waveform data, setups, and screenshots on a USB flash drive
- Standard mini-USB device port for remote PC control

Model	Bandwidth (MHz)	Channels	Order Code#
GPS-806	60	2	180806
GPS-810	100	2	180815
GPS-820	200	2	180820

**Touch screen operation with multi-touch**



### GPS-800TA series

### Tablet Range

The GPS-800TA series uses a robust 8 inch TFT-LCD screen with 800x600 pixel display, that combines the slick, responsive touchscreen facilities of the today's tablets with the functionality of a powerful, precise oscilloscope. The screen supports a multi-touch capacity which allows quick access to specific functions and actions. Add to this, a 256-colour intensity graded display and support for LAN, Wi-Fi, HDMI, USB Host, USB Device, Pass/Fail, Trigger Out

- Full touch screen operation w/ virtual keyboard
- 70 or 100 MHz bandwidth
- 2 or 4 channels
- 1Gs/s sampling rate
- Up to 28Mpts memory depth with ZOOM technology
- Up to 80,000 wfms/s capture rate
- 31 types of auto measurements
- Lower noise and various trigger functions
- Multi-level intensity grading display
- Built-in 8GB memory

Model	Bandwidth (MHz)	Channels	Order Code#
GPS-807TA2	70	2	182107
GPS-810TA2	100	2	182310
GPS-807TA4	70	4	182807
GPS-810TA4	100	4	182910

For full technical information, please visit [www.gpslimited.com](http://www.gpslimited.com)

# GPS LTD. Signal Generator

Touch screen for easy navigation

High performance sampling system



Touch screen

Model	Bandwidth (MHz)	Channels	Order Code#
GPS-2142X	40	2	223142
GPS-2182X	80	2	224082

## GPS-2100X series

A series of dual channel function/arbitrary waveform generators with 1.2Gsa/s sampling rate and 16-bit vertical resolution integrating innovative technology for arbitrary, square and pulse waveforms exclusive to these generators. The detail in the waveforms will provide users with a variety of high fidelity and low jitter signals that can meet the requirements of complex and extensive applications.

- Dual-channel, 20Vpp maximum output amplitude and high fidelity output with 80dB dynamic range
- High-performance sampling system with 1.2Gsa/s sampling rate and 16-bit vertical resolution.
- True-Arb technology: supports any 8Pts~8MPts Arb waveform with a sampling rate in the range of 1μSa/s~75Msa/s
- Innovative EasyPulse technology, can output pulses with low jitter and quick rising/falling edges
- Numerous analog and digital modulation types
- 4.3" touch screen
- Standard interfaces: USB Host, USB Device (USBTMC), LAN (VXI-11)
- Sweep and Burst function
- High precision frequency counter
- Optional GPIB interface
- Supplied with powerful editing software **EasyWave**

*"The best value 60MHz function/arbitrary waveform generator on the market"*



Order code#: 201600

Sweep and Burst function

Harmonics generator function

Waveform combining ability

High precision frequency counter

## GPS-2160+

Capable of generating stable and precise sine, square, triangle, pulse, and arbitrary waveforms. With an easy-to-read color display and intuitive user interface with numeric keypad, these instruments offer plenty of features including linear/logarithmic sweep, built-in counter, extensive modulation and triggering capabilities, a continuously variable DC offset, and a high performance 14-bit, 150 MSa/s arbitrary waveform generator

- 14-bit, 150 MSa/s, 16k point arbitrary waveform generator
- Innovative EasyPulse technology, can output pulses with low jitter and quick rising/falling edges
- Numerous analog and digital modulation types
- Two independent channels with individual output on/off buttons
- Convenient channel copy, track and combine functions
- Synchronize the phase of both channels with the push of a button
- Low-jitter square wave generation for simulating reliable clock signals, generating triggers, or validating serial data buses
- Variable DC offset and adjustable duty cycle



# GPS LTD. Signal Generator

120 or 160 MHz model

Dual floating output channel

500Msa/s sampling rate

EasyPulse technology



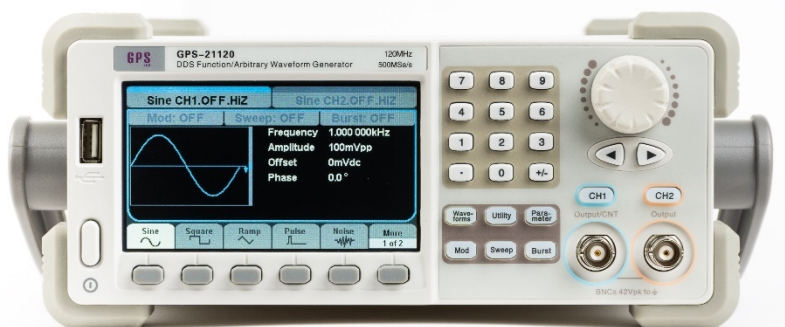
Model	Bandwidth (MHz)	Channels	Order Code#
GPS-21120	120	2	202210
GPS-21160	160	2	202601

## GPS-21100 series

## High output frequency

Dual Channel Function/Arbitrary Waveform Generators that are capable of generating stable and precise sine, square, triangle, pulse, and arbitrary waveforms. With an easy-to-read color display and intuitive user interface with numeric keypad, these instruments offer plenty of features including linear/logarithmic sweep, built-in counter, extensive modulation and triggering capabilities, a continuously variable DC offset, and a high performance 14-bit, 500 MSa/s arbitrary waveform generator.

- Available in 120 or 160 MHz model
- 14-bit, 500 MSa/s, 512k point arbitrary waveform generator
- Two independent channels with one button synchronization
- Large 4.3-inch LCD colour display
- Linear and logarithmic sweep
- AM/DSB-AM/ASK/FM/FSK/PM/PWM modulation functions
- Variable DC offset
- Highly adjustable pulse duty cycle from 0.0001% to 99.9999%
- Internal/external triggering
- Gate and burst mode
- 36 built-in predefined arbitrary waveforms
- Store/recall up to 10 instrument settings and 32 user-defined arbitrary waveforms
- Built-in counter
- USB device port (USBTMC-compliant) with front panel USB host port
- GPIB connectivity with optional USB-to-GPIB adapter (model AK40G)
- Short circuit output protection
- Supplied with powerful editing software **EasyWave**



For full technical information please visit <http://www.gpslimited.com>

Online documentation includes basic introduction, training manual and operating manual.

**3 models available**

**DDS technology/Dual output**



Model	Bandwidth (MHz)	Channels	Order Code#
GPS-2110	10	2	204110
GPS-2125	25	2	204025
GPS-2150	50	2	204550

### GPS-2100 series

### Dual Channel Output

The GPS-2100 series can be categorized as reasonably priced with outstanding performance. With its built-in arbitrary waveform output, dual channels, complete set of modulation functions and friendly design, this generator comes highly recommended for fields such as analog sensors, circuit function testing, IC testing, and simulating environment signals.

- Advanced DDS technology can provide stable, high-precision, pure and low distortion signals
- 125MSa/s sample rate, 14-bit vertical resolution
- 5 types of standard output waveform, 46 built-in arbitrary
- Modulation functions: AM, FM, PM, FSK, ASK, PWM, linear/logarithmic sweep, burst
- Channel duplication function
- Abundancy of input/output options including: synchronous signal input, external modulation source input, 10MHz clock input, external trigger input, internal trigger output and more...
- Built-in accurate frequency counter that can measure ranges 100mHz-200MHz (single channel)
- Standard interfaces: USB device, USB host, Optional interface: GPIB
- Supplied with powerful editing software **EasyWave**
- Remote control support

**3 models available**

**Innovative EasyPulse technology**



Model	Bandwidth (MHz)	Channels	Order Code#
GPS-2105S	5	1	200115
GPS-2110S	10	1	201010
GPS-2130S	30	1	203130

### GPS-2100S series

### Single Channel

Single channel generators with the functionality of a function, arbitrary, modulation and pulse/pattern generator. All-in-one easy to use, high performance, compact, stand-alone bench top unit, which enables engineers to test analog, digital and mixed signals devices with a single instrument.

- Advanced DDS technology, 125MSa/s sampling rate, 14-bit vertical resolution
- Single channel output, 5 types of standard waveforms, built-in 46 kinds of arbitrary waveforms (including DC)
- Complete modulation functions: AM, DSB-AM, FM, PM, FSK, ASK, PWM, linear/logarithmic sweep, and burst
- Innovative EasyPulse technology, can output pulses with low jitter and quick rising/falling edges
- Standard interfaces: USB Device, USB Host, support U-Disk storage
- Provides 10 non-volatile storage spaces for user's arbitrary waveforms
- Can be seamlessly connected to GPS LTD Digital Storage Oscilloscope
- Configurable with powerful editing software **EasyWave** (supplied)

# GPS LTD. Spectrum Analyser

1024 x 600 resolution

Large 10.1" display



Preamplifier as standard

2.1 or 3.2 GHZ model available

## GPS-SA3000XX

with Tracking Generator

A series of spectrum analysers that redefine the product category by setting new standards for performance and price. The series features a widescreen display, compact design, and easy-to-use interface making it ideal for benchtop or field apps in RF and wireless testing and production. The spectrum analyzer offers the ability to measure smaller signals using our digital IF filter, which allows for smaller bandwidth settings and reduces displayed noise levels. The analyser distinguishes between signals with a frequency difference as little as 100 Hz. RBW is settable down to 10 Hz and a DANL (displayed average noise level) down to -161 dBm (typical). In addition, GPS Ltd. offers great options including an EMI filter and quasi-peak detector kit, VSWR measurement package, and tracking generator ("-TG" version) for all of these models. A Preamplifier is standard on all models. Whether your application is radio verification at 455 MHz or monitoring the 3rd harmonic of 2.4 GHz signals find the right spectrum analyser in the SA3000XX Series.

Comes fully supplied with EasySpectrum software

Model	GPS-SA3021TG	GPS-SA3032TG
Frequency Range	9kHz ~ 2.1 GHz	9kHz ~ 3.2 GHz
Resolution Bandwidth	10 Hz~1 MHz, in 1-3-10 sequence	
DANL	-161 dBm/Hz, Normalize to 1 Hz (typ.)	
Phase Noise	<-98 dBc/Hz@1 GHz, 10 kHz offset	
Amplitude Precision	< 0.7 dB	
Trigger Type	Edge, Slope, Pulse width, Window, Runt, Interval, Dropout, Pattern, Video	
Tracking Generator	YES	
Order Code#	650508	650530



For full technical information please visit  
<http://www.gpslimited.com>

Stable output with low noise

6 models for all applications



## GPS-3000 series

## linear DC Supply

Ideal for a wide range of applications including bench testing, field service, hobby and telecommunication equipment. Features dual backlit LCD display for current and voltage, short circuit and overload protection. Operates from 230VAC  $\pm 10\%$ /50Hz power source. Banana plug outputs. Complete with power cord.

- Operate continuously at full load without overheating
- Adjustable Voltage and Current output with coarse and fine control dials
- Constant Voltage or Current
- Overload and short circuit protection
- High load/line regulation
- Low noise/ripple
- Range of models and outputs available

Model	Output	Specification	Order Code#
GPS-3303S	single	0~30V/0~3A	510020
GPS-3305S	single	0~30V/0~5A	510080
GPS-3020S	single	0~30V/0~20A	510902
GPS-3303D	triple	2 x (0~30V/0~3A) + 2.2~5V/1A	560214
GPS-3306D	triple	2 x (0~30V/0~6A) + 5V/3A	560355
GPS-3603D	triple	2 x (0~60V/0~3A) + 5V/3A	560678

True colour display

PC software included

Crisp graphical interface



Order code#: 590330

## GPS-3303DPX

## programmable

These supplies are ideal for testing a wide range of devices, circuit boards, modules, and products that require multiple power sources cost-effectively. The supplies provide two channels, each capable of outputting up to 30V and up to 3A; the third channel can provide up to 5V at 3A. Low noise and linear regulation ensures that the level of power applied to the DUT's load terminals is accurate.

- 3 independent controlled and isolated outputs
- 4-digit voltage and 3-digit current display with minimum resolution of 10mV/10mA
- Supports panel timing output functions
- 4.3" true colour TFT-LCD display with resolution of 480 x 272 pixels
- Independent, series and parallel output modes
- Graphical interface with waveform display function
- Intelligent temperature controlled fan
- EasyPower© software supports SCPI / LabVIEW driver

For full technical information, please visit  
[www.gpslimited.com](http://www.gpslimited.com)



**IP67 dust and waterproof**

**Conform with latest safety standards**



### GPS-170/176/179

**handheld range**

Top of the range multimeters with reassuring safety features to give the user the confidence to take safe and highly accurate readings for a wide range of applications.

- 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) with auto power off (all models)
- Double moulded plastic housing
- Relative mode
- Data Hold/MAX/MIN (GPS-170 Data Hold only)
- Duty cycle of 99.9%
- Frequency range 10 MHz
- Temperature readings up to 760°

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
4-20mA process loop	yes	-----	-----
PEAK capture	yes	no	no
Backlight display	yes	yes	no
Wide capacitance range	40mF	1000μF	100μF
IP67 waterproof and auto power	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%
Capacitance	40mF / 10pF	1000μF	100μF
Order code#	404179	402176	400170

# GPS LTD. Multimeter

Large display with dual screen

High precision

PC connectivity

Order code#: 420055



## GPS-8055C

5½ digit

Designed with 5½ digits readings resolution and dual-display, especially suitable to the needs of high-precision multifunction and automation measurements. It provides a combination of basic measurement functions; multiple math functions and viewer display functions. With a 4.3-inch colour TFT-LCD display screen, clear keyboard layout and operation hints, the instrument delivers clear ease of use to the user. Supports multiple interfaces, such as USB Device & Host and LAN which can deliver further functionality.

- 4.3-inch colour TFT-LCD display screen with 480\*272 resolution
- Real 5½ digits readings resolution
- Up to 150rdgs/S measurement speed
- True-RMS AC Voltage and AC Current measurements
- 1 Gb Nand Flash size, mass storage configuration files and data files
- Built-in cold terminal compensation for thermocouple
- Support standard SCPI and control software
- Supports dual-display function
- Built-in help system, convenient to acquire information
- Support USB Device, USB Host, LAN, and GPIB (optional) interfaces

Large display with dual screen

Extensive number of parameters

Up to 36 hours of recording

Best Seller

Order code#: 421060



## GPS-8145

4½ digit

An intelligent and multi-functional device for various measurements. Highly accurate, reliable and high frequency available at a low cost. With a large dual LCD display, two electrical characteristics in a single measurement are shown. The unit carries an extensive list of measurement items including T-RMS, Capacitance, Frequency, Temperature and Square Wave Output. It is equipped with an RS-232 interface and relevant software to allow easy computer connection. Compliant with IEC 6010 CAT II 1000V and CAT III 600V.

- Multi display; primary 80000 counts, secondary 80000 counts and 23 segment bar graph
- 50 measuring functions
- 18 types of frequency up to 80 MHz
- Simultaneous measurements
- Auto data update and refresh/auto data hold/auto peak hold
- 36-hour dynamic recording
- Highly accurate T-RMS measurements

For full technical information, please visit [www.gpslimited.com](http://www.gpslimited.com)

# GPS LTD. **Clampmeter**

Versatile & handy

Full industrial features



Order code#: 452725

- LVD EN61010-2-032 CAT III 600V
- EMC EN61326(97/98AI)/EN61 000-4-2(95)/EN61000-4-3(96)

## GPS-270

## DC/AC current clamp-on

A versatile tool allowing a wide range of measurements with high safety features.

- DC1000A/AC800A Clamp-on+ full multimeter ranges 50mm
- Large jaw opening
- Fully auto-ranging on all functions for ease of use
- 4000 counts high resolution; fast measurements
- 600VAC/DC input protection on all functions
- AC True RMS voltage and current functions
- Back light display
- 30ms Max HOLD to capture in-rush currents
- Data Hold
- Relative zero feature
- DCV 0. 1mV to 600V
- ACV 0.1mV to 600V
- DCA 0.1A to 1000A non-invasive current measurements
- ACA 0.1to 800A non-invasive current measurements
- Ohm 0.H1 to 40.00 MO
- Capacitance 0.01nF to 3000μF
- Fast audible continuity Diode test
- Battery cover with probe holders
- Rugged fire retarded casing; soft carrying pouch
- Transient protection 6.5KV 1.2/50μs lightning surge

Auto-check feature



Order code#: 452120

- LVD EN61010-2-032 CAT III 600V
- EMC EN61326(97/98AI)/EN61 000-4-2(95)/EN61000-4-3(96)

## GPS-210

## AC current True-RMS

A smart versatile tool for electricians with Auto Check, Ghost-Voltage Buster and EF-Detection features.

- 2000A AC Clamp-on + full multimeter ranges
- on all functions for ease of use 6000 counts high resolution; fast measurements
- 600VAC/DC input protection on all functions
- AC True RMS voltage and current functions Back light display
- Auto check feature (automatic DCV, ACV, & Ohms selection) Data Hold
- Lo-Z Volts to drain ghost voltages (Auto-VO position) Non-contact EF-Detection (NCV)
- Probe-contact EF-Detection for more precise induction of live High voltage frequency with auto-ranging trigger levels
- Overload-Alert On > 600VAC/DC (Beeps & OL indication)
- DCV & ACV 0.001V to 600.0V
- ACA 0.1A to 2000A non-invasive current measurements
- Capacitance 0.1nF to 2000μF Ohm 0.10 to 6.00 MO
- Diode test
- Fast audible continuity
- Battery cover with probe holders

# GPS LTD. **Clampmeter**



Order code#: 480290

- LVD EN61010-2-032 CAT III 600V
- EMC EN61326 (1997/1998A1) / EN61000-4-2 (1995/2000A2) / EN61000-4-3 (2002)



For full electrical specifications, please visit  
[www.gpslimited.com](http://www.gpslimited.com)

## GPS-290P

## Power Clamp Meter

KWHr recording and 3-Phase unbalanced-load power made handy with an easy display guide on both 3 and 4-wire unbalanced-load measurements.

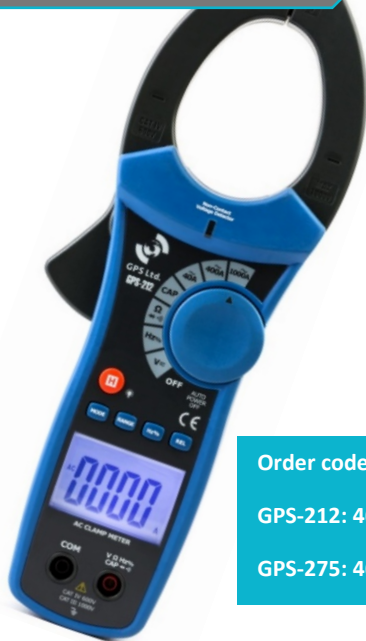
- Lightweight and stylish; 45mm large jaw openings
- 1000A AC clamp-on and multimeter ranges
- 600VAC/DC input protection on all functions
- AC True RMS voltage and current functions
- Balanced-load 3-phase / 1-phase power W, VA and VAR measurements
- Dual display power factor (PF) and A-Lags-V phase-shift indication
- Unbalanced-load 3-phase 3-wire / 4-wire power W (with memory recall)
- kWhr recording function (with memory recall)
- ACV and ACA + dual display total harmonic distortion-fundamental THD%-F
- LCD display with backlight
- Automatic selection of DCV, ACV and ACA measurements (Auto V.A.)
- Fast PEAK-RMS hold (65ms to 90%) for in-rush ACA and ACV readings
- PC-Interface (optical isolated PC interface)
- Software kit for Windows®
- Data hold function
- 5hz ~ 500hz line frequency measurement
- DCV and ACV 0.1V to 600.0V
- ACA 0.01A to 1000A non-invasive current measurement
- Ohm 0.1Ω to 999.9Ω
- Fast audible continuity
- Battery cover with probe holders
- Rugged fire-retardant casing
- Transient protection 96kV 1.2/50μS lightning surge



# GPS LTD. Clampmeter

## T-RMS Measurements

### Non-contact voltage detector



Order code#:

GPS-212: 460212

GPS-275: 464275

## GPS-212/275

### Large jaw clamp

A versatile tool allowing a wide range of measurements with high safety features.

Model	GPS-212	GPS-275
Digital Display Counts	4000	4000
Display with Backlight	yes	yes
True-RMS Measurements	no	yes
Data Hold function	yes	yes
Electronic Overload Protection	yes	yes
Max. Hold function	no	yes
Zero Function for DC current	----	yes
PEAK Hold function	no	yes
Low battery indication	yes	yes
Auto Power off function	yes	yes
Analogue Bar graph	no	yes
Non-contact Voltage Detection	yes	yes
AC/DC Current measurement	AC	AC/DC
Jaw size	2" (52mm)	2" (52mm)
DC Current/Resolution/Accuracy	----	1000A / 0.01A/2.8%
AC Current/Resolution/Accuracy	1000A / 0.01A/0.8%	1000A / 0.01A/2.8%

## Auto-Ranging with Data-hold



Order code#:

GPS-230: 470230

GPS-232: 474232

## GPS-230/232

### Mini clamp

Low cost electrical mini clamp meter with auto-ranging, display hold and auto power down.

Model	GPS-232	GPS-230
Digital Display Counts	4000	2000
Display with Backlight	yes	yes
Data Hold function	yes	yes
Max. Hold function	no	yes
Zero Function for DC current	yes	----
Low battery indication	yes	yes
AC/DC Current measurement	AC/DC	AC
Jaw size	0.9" (23mm)	0.9" (23mm)
DC Current Range Resolution Accuracy	400.0A / 40.00 A 0.1 / 0.01 A ± (2.5% + 6 digits)	----
AC Current Range Resolution Accuracy	400.0A / 40.00 A 0.1 / 0.01 A ± (2.5% + 6 digits)	2.000A/20.00A/ 200.0/400A 0.001A/0.01A/0.1A/1A ± (3.0% + 10 digits)

# GPS LTD. Earth Tester



## **ERT 15C/20C/20C+** clamp tester

The clamp-on ground testing technique used by the ERT series simplifies ground loop testing and enables non-intrusive leakage current measurement. The ERT-20C models are able to measure the leakage current of ground wire, whilst both models can measure the integrated value of ground resistance and resistance field.

- Innovative technique in Ground Resistance Testing; non-contact, safe and fast
- Special clamp shape improves access to earth cables and straps up to 65 mm (ERT-20C/20C+)
- Measures ground leakage current up to 20 A (20C/20C+)
- Automatic self-calibration
- Auto ranging
- Software and advanced memory functionality with download option (20C+ model only)

Model	ERT-20C+	ERT-20C	ERT-15C
Clamp size	65mmx32mm		Φ32mm
Resistance Range	0.01Ω-1200Ω		0.01Ω-200Ω
Min. Resolution	0.001 Ω		±(1%+0.01Ω)
Min. Accuracy	±(1%+0.01Ω)		±(1%+0.01Ω)
Current Range	0.00mA-20.0A		---
Current Res.	0.05mA		---
Current accuracy	±2.5% ±1mA		---
Order code#	800121	800020	800115



## **ERT-10** compact tester

A handheld instrument used to quickly and easily determine earth and ground resistance. Earth resistance and insulation are determined with the earth resistance meter through 3 conductors up to 2000 Ω. By means of the rotary switch a zero setting can be performed before every measurement to optimise accuracy. Supplied with a test lead set (3-wire) and carrying bag.

Basic Function	Range	Accuracy	Res.	Test Current	Test Frequency	Measuring Method
Earth Resistance	20Ω	±(2.0%+0.1Ω)	0.01Ω	Approx. 3mA	Approx. 820Hz	Precise 3-wires
	200Ω	±(2.0%+3digit)	0.1Ω	Approx. 2mA		
	2000Ω	±(2.0%+3digit)	1Ω	Approx. 1mA		
	2000Ω	±(2.0%+5digit)	1Ω	Approx. 1mA		Simplified 2-Wires
Earth voltage	200V	±(1.0%+5digit)	0.1V	-	-	-

- Large digital LCD display with back-light to enable easy observation
- Hands-free and continuous measurements with a custom switch
- Data hold and auto power off function
- 3mA measuring current allows the testing of Earth Resistance without tripping leakage current circuit breakers in the circuit
- Low battery indicator
- Compact, light-weight and heavy duty rugged case
- Designed, manufactured and tested according to IEC 61010-1

Double-clamp method

ART (attached rod technique)

Sold as complete kit with case



Order code#: 800350

Electrode Distance Range can be set: 1 to 100m

## ERT-50

### double clamp tester

The new ERT-50 offers a comprehensive solution to your ground stake and soil resistivity needs. The complete kit is delivered in a tough carry case which has the space to accommodate all the instrument accessories and everything else you need to start testing in one kit. The clear, easy-to-read display provides excellent contrast and viewing angle making it ideally suited to outdoor use.

- 2/3/4-point testing or double clamp method
- Attached rod technique
- Stake-less measurements
- Take measurements of earth resistance, soil resistivity, earth voltage and leakage current of grounding line.
- FFT and AFC technology
- Resistance range (2/3/4-pole method): 0.00Ω–30.00 kΩ (20mA max)
- Resistance range (selection method): 0.00Ω–3000.0Ω (20mA max)
- AC current: 0.00mA ~ 600.0A
- Soil resistivity: 0.00Ω-m to 9000kΩ-m
- Earth voltage range: 0–100V AC; resolution 0.1V
- Data memory: 300 sets. Data upload with RS232
- Robust carry case
- Large LCD display with backlight
- Complete with lead and stake kit

4, 3 or 2-pole method

Large, clear & bright display

Sold as complete kit with case



Order code#: 800240

Electrode Distance Range can be set: 1 to 100m

## ERT-40

### digital tester

Specially designed and manufactured for measuring earth resistance, soil resistivity, earth voltage and AC voltage. Adopting the latest digital micro-processing technology for precise 4-pole, 3-pole and simple 2-pole method for earth resistance measurements with integrated FFT and AFC technology.

- 2/3/4-wires measurement
- Anti-interference ability and repeated measurement stability for more precision
- Robust body material; stands knocks, avoids slips, solid and durable
- Data upload with RS232, alarm function
- Large LCD display with blue backlight
- Data memory: 300 sets
- Resistance range: 0.00Ω–30.00 kΩ
- Soil resistivity: 0.00Ω-m to 9000kΩ-m
- Earth voltage range: 0–600V AC; resolution 1V

The ERT-40 and ERT-50 use an advanced filtering method (based on FFT Fast Fourier Transform) that reduces noise interference for obtaining stable measurements while also adopting AFC technology (Automatic Frequency Control) which identifies existing interference and chooses a measurement frequency to minimize its effect, to provide the most accurate and reliable earth ground value.

**NEW ergonomic body design**



Order code#: 800600

- Safety EN601010:2001
- EMC EN:61326-1:1997 + A1:1998 + A2:2001

## GPS-925

## Multi-function calibrator

Our multifunction calibrator does the work of numerous single-function devices. Calibrators with multipurpose capabilities are able to source, simulate and measure temperature and electrical signals. With one handheld device, you can test sensors, transmitters and other instruments. We provide one of the most cost-effective portable calibrators available today. The multifunctional process calibrator can provide milliamp, voltage, frequency, resistance, thermocouple and RTD with the same functions and accuracy associated with fixed installations. Arrow keys and direct numeric keypad entry plus a large backlit, menu-driven graphics display combine to provide a simple yet powerful operator interface. The programmable calibrator allows you to create and utilise automated procedures for faster operations. Supplied in a tough carry case.

- Measure and source TCs (10 types), RTDs (6 types), Ohms, current, voltage, frequency
- Isolated mA/V read-back circuit for complete transmitter calibration
- Built-in 24V supply can drive 4-20mA loops up to 1000Ω
- All source modes can be programmed with dedicated set points to speed up calibrations and linearity test
- High accuracy to 0.01% of reading
- Store frequently used test setups for later use
- Backlight for dark environments
- Perform fast linearity tests with auto setup and auto ramp feature
- Meets CE requirements and is designed to IEC1010 safety standards

For full technical information, please visit [www.gpslimited.com](http://www.gpslimited.com)

Model	GPS-925	Market Competitor
Accuracy	0.01%	0.01%
Current source	Y	Y
Simulate transmitter	Y	Y
Frequency	Y	Y
Output Range	0-5V adjustable	5V not adjustable
Pulse count	Y	N
Pressure Input	N	External
Cold Junction	Man/Auto	External
Resolution	5½	4½
Numeric Keyboard	Y	N
Base Stability	3PPM	15PPM
Cold Junction Stability	0.2°C	0.2°C
Auto-Calibration	Y	N



Dual screen for extra parameters

RS232 PC Connectivity

Order code#: 500300

Best  
Seller



### GPS-132A

handheld

This meter will accurately measure capacitors, inductors and resistors using the test frequencies of 120Hz and 1 kHz. The dual display will simultaneously display the associated quality factor, dissipation or resistance value using a series or parallel equivalent circuit. The included RS-232c PC interface feature with Data Acquisition permits the user to capture readings to a PC for data storage, viewing, printing, and exporting to spreadsheet for graphing and other data manipulation tasks. This meter is shipped fully tested and calibrated and, with proper use, will provide years of reliable service

- 20,000/10,000 count backlit display
- Simultaneously shows primary parameter (L, C, R) and secondary parameter (Q, D or R)
- Set high and low limits using absolute values or percentage limits
- Parallel or series equivalent circuit
- MAX/MIN/AVG mode
- Automatic power off (can be disabled)
- Automatic blown fuse indicator
- Built-in test fixture, or use external test leads
- Open and short zeroing to remove unwanted stray impedance
- Relative mode

*"An entry-level meter for evaluating LCR components, materials and semiconductor devices"*

Order code#: 500100



### GPS-3131B

general purpose

An economical general-purpose benchtop LCR Meter used for incoming inspection of components and quality control. It is an ideal instrument when high accuracy and wide test frequency range is not required for the evaluation process. The instrument's convenient bin sorting function and frequency sweep function enables quick sorting and characterization of components.

- Parameters: L, C, R, |Z|, D, Q
- Testing frequency: 100Hz, 120Hz, 1kHz, 10kHz
- Signal Level: 0.3V, 1.0V
- Testing Speed: Fast & Slow (5 times/sec and 2 times/sec)
- Source Resistance: 30 Ohm & 100 Ohm
- Range: 6 ranges; manual or automatic
- Equivalent: serial and parallel
- Terminals: Five-terminal
- Accuracy: 0.25%

Extra features include:

- Calibration function (Short & Open sweep frequency for all ranges, zero setting for all ranges)
- Comparator function (5-bins result sorting)
- Automatic parameter selection (according to the DUT)



GPS-3135B



GPS-3138B

**Choose from 3 different models**

**High accuracy of 0.05%**

**TFT LCD True colour display**

All models are equipped with a handler interface. This allows the user to easily combine the instruments with a component handler and a system controller to fully automate component testing, sorting and quality control data processing.



For full technical information, please visit  
[www.gpslimited.com](http://www.gpslimited.com)

#### GPS-313XB series

#### advanced LCR Meter

Evaluate LCR components, materials and semiconductor devices over a wide range of frequencies (10Hz to 300kHz) and test signal levels (0.01Vrms to 2Vrms). Every measurement taken with these meters are to the highest levels of precision with a basic accuracy of 0.05%. This high precision allows the user to test components and ensure that they're correctly designed and working at the intended specifications with full confidence. Built-in memory is also included, making it easy to sort out your testing data into files for simple processing. The tester can also be connected up to a PC in order to download this information. All meters are equipped with a high quality TFT LCD true colour display which clearly shows all measurement parameters

#### GPS-3135B

- Frequency range of **50Hz to 100kHz**
- Selectable testing parameters: Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, G-B, R-X, Z- $\theta$ rad and z- $\theta$ deg
- High accuracy measurements of 0.05%
- Adjustable signal level from 0.01V to 2.0V (in 10mV steps)
- Integrated memory
- LCR automatic selection
- SCPI instruction set
- Order code#: 510050

#### GPS-3138B

- Frequency range of **50Hz to 200kHz**
- Multiple parameter selection: Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, G-B, R-X, Z- $\theta$ rad, z- $\theta$ deg
- 9 ranges with automatic and manual selection
- Integrated memory for easy documentation
- OPEN and SHORT correction
- Integrate into automated testing with the handler interface
- Key lock function
- Order code#: 510283

#### GPS-3139B

- Frequency range from **10Hz to 300kHz** caters for a vast range of LCR components
- OPEN and SHORT correction options
- Comparator function: organizes components into 10 files with 14 bins: P1 - P9, Ng, AUX, HI, IN and LO
- Measure multiple parameters: Cs, Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, Rs-Q, R-x, Z- $\theta$ rad, Z- $\theta$ deg
- High accuracy measurements: 0.05%  $\pm$  5
- Automatic and manual range selection options
- Order code#: 510933

# GPS LTD. Ohm Meter



Order code#: 620885

## GPS-885

## handheld DC milli-ohm meter

Accurate and convenient measurements of passive-components can be achieved in all environments over a long period of time. With a wide measurement range, it can guarantee high accuracy even at low testing speeds and its unique current testing mode can adapt to different testing conditions. For long distance control, DAQ and analysis, the unit is equipped with a mini-USB interface. The unit comes complete with test clip, probes, carrying case, data acquisition software and mains power adaptor.

- Rechargeable battery or mains power operated
- Automatic Power OFF function
- ABS/PER/SEQ comparison criteria
- Comparator function: GD/NG Show555
- 3.5-inches, TrueColor 16M, TFT LCD display
- Auto Zero-Adjust for each range
- Four terminal resistance measurement
- Mini-USB interface
- SCPI compatible command sets
- Keypad lock function
- Background light adjust function
- Automatic shutdown option

For full technical information, please visit [www.gpslimited.com](http://www.gpslimited.com)

Wide measurement range

0.05% accuracy

Mini-USB interface

Includes CD software

Parameter	DC Resistance
Accuracy	0.05%
Measurement Range	10 $\mu\Omega$ ~ 20M $\Omega$
Measurement Current	I-Max: <1A Current Mode: high current, low current
Range	Auto, manual, nominal within 10 ranges
Speed	30/15/3 times per second
Display Max	20000 counts
Trigger	Internal, Manual, Remote

# GPS LTD. Ohm Meter



Order code#: 621745



Resistance range up to 1TΩ

Super-fast testing capability

6-range automatic testing

Built-in comparator

Two types of interface:

1. Handler interface: GD/NG Output, Trig Signal Input and EOC (Busy) Output
2. RS232C interface: SCPI compatibility, ASCII transmission

## GPS-3861

## Mega-ohm meter

The GPS-3861 can be used to measure insulation resistance of electronic components, devices, dielectric materials, wires, cables and more. The unit incorporates a 4-digit dual display to show insulation resistance and leakage current and can output comparison/decision results for sorting components into 2 bins. Furthermore, by using the handler interface, the GPS-3861 can be easily combined with a component handler and a system controller to fully automate component testing, sorting and quality control data processing. A GD/NG indicator on the VFD provides a visual display of test results based on a pre-set limit. 30 sets of test conditions are stored in the unit and can be re-programmed by the user. The instrument is for both quality control and laboratory use

- High brightness VFD
- Measures insulation resistance and leakage current
- Output voltage: 1.0VDC~1000VDC
- Basic accuracy: <1G:  $\pm 1\%$   
 $\geq 1G$ :  $\pm 3\%$   
 $\geq 10G$ :  $\pm 5\%$
- Max charge current: 30mA $\pm$ 5mA
- Automatic test with 6 ranges
- Measuring range from 100kΩ to 1TΩ
- Super-fast test rate
- Built-in 2 timers (charge timer, sample timer)
- Correction (Zeroing) function
- Built-in comparator (Sorting)
- Trigger mode: Internal, Manual (remote), and External (Handler)
- Environmental: MIL-T-28800D, Type 3, Class 5, Style E & F

For full technical data, please visit [www.gpslimited.com](http://www.gpslimited.com)



PC software included

USB interface

Colour display w/ backlight



Order code#: 621623



#### Cable Clamp C04A

Adjustable clamp support: measurement length of up to 1000mm

Test unit cross-sections: ranging from 0.1mm<sup>2</sup> to 1256mm<sup>2</sup>

Wire diameter range: 1mm – 40mm

Current connections: designed for 100A

#### GPS-8815D

#### Ultra-high precision micro-ohm meter

A wide-range, high-performance ARM microprocessor-controlled resistance meter. Use SCPI for complete and efficient remote control and data acquisition functions.

- True colour TFT-LCD 3.5" display
- Measurement range of 0.1μΩ to 1.2GigaΩ
- Measurement speed of max. 220 readings/second (4.5ms)
- 3 test speeds: Fast, Medium and Slow
- Current range up to 1A
- Maximum display number of 1,200,000
- Auto, Hold and Nominal range
- SHORT-CIRCUIT Clear Zero correction function
- Comparator: total 13 Bins, 10 Bins GD, 3 BINS HI/IN/LO
- Beep feature OFF/GD/NG
- Internal, Manual, External and BUS trigger
- Handler interface, RS232 interface and temperature compensation interface
- SCPI programming language
- Comes with Kelvin test clip, RS232 cable, software and calibration certificate as standard
- Recommended optional accessory of **cable clamp C04A** available

PC software included

USB interface

Colour display w/ backlight



Order code#:621555

#### GPS-8815C

#### Micro-ohm meter

Offers flexibility of measurement with high accuracy and exceptional functionality. The GPS-8815C encompasses all the features required in an ohm-meter in one practical instrument.

- True 4 terminal Kelvin/Thompson principle measurement eliminates lead resistance errors
- Measuring range from 30.000mΩ to 20.000MΩ, 1μΩ resolution
- 10 automatic or manual selections
- True zero capability
- Digital calibration
- Current range up to 1A
- Programmable current mode: High/Low/Pulse
- High accuracy 0.05%
- 80 measurement/second capability
- 13 built-in comparators, HI/LO limits
- Four colour VFD graphics panel with backlight, 30,000 count
- Temperature compensation function with plug-in temp. sensor
- Remote handling with PLC interface
- Comes with Kelvin test clip, RS232 cable, software and calibration certificate as standard
- Recommended optional accessory of **cable clamp C04A** available

For full technical information, please visit [www.gpslimited.com](http://www.gpslimited.com)



GPS LTD.

# Electronic Load



Constant A, V, R and power modes

True colour display

SCPI compatible

Built-in file editor

Full overload protection

Transient testing function



In addition to testing linear power supplies and switching power supplies, the 8512C can better test battery chargers and batteries and meets the requirements of power supply manufacturers and related factories.

## GPS-8512C

### digital electronic DC load

Compact, economically priced instrument that is at home on both the bench and the production floor. The load can operate in CC, CV or CR mode while voltage/current or resistance/power values are measured and displayed in real time, making it well suited to test a variety of DC power sources. You can use the built-in file editor or RS232 and USB interface to edit the order list to complete highly efficient measurements. With a high-performance ARM microprocessor, the 8512C's performance is comparable to most full-size bench DC electronic loads, yet it does the job at half the price and takes up half the space on your bench.

- Constant current mode with range from 0 to 30A and accuracy of 0.1%
- Constant voltage mode with range from 0 to 120V with accuracy of 0.05%
- Constant power mode with range from 0 to 300W (AT8512) with accuracy of 1%
- Constant resistance mode with range from 0 to 4000Ω and accuracy of 1%
- 3.5" True colour LCD display
- Triggered input interface + built-in RS232 interface using SCPI
- Overvoltage, overcurrent, overpower and overheating protection
- Configure your own settings and recall as needed for easier testing
- Transient testing function
- Simulate a short circuit at the input with the short circuit function
- Battery testing function - use to evaluate battery status and connect to PC analysis software to view discharge curve
- Sequence list function - generate complex sequences of input changes with rapid, precise timing (99 steps in 10 files)
- Automatic testing function - tests various parameters of power supplies at different loads with CC, CV, CP, CR, short circuit and open circuit modes all available



**GPS-5033A  
GPS-5110AD**

**AC Withstanding Tester  
AC/DC Withstanding  
Tester**

A high-precision device for withstand voltage testing and is strictly designed according to the related IEC standard. The voltage, current and timings are viewable with a digital display. The testing is quick and highly accurate which can not only be applied to the production line but also in the lab.

A necessary tester for the safety test of electrical equipment.

Model	GPS-5033A	GPS-5110AD
Test Voltage	AC 0—5kV	AC/DC 0—5kV
Test Current	AC 0.1—33mA	AC 0.1—110mA DC 0.1—11mA
Max. Output Power	150VA	500VA
Voltage Display Accuracy	±5%F.S.	
Current Display Accuracy	±5%+20μA	

- Clear and concise display on a high-brightness VFD
- Short-circuit test function at grounding terminal
- Timing test function from 0.5s to 999s (customisable)
- 4 special test modes to improve security
- Auto discharge function (for GPS-5110AD)
- Excellent noise retaining circuit to improve stability
- Over-zero start-up and cut-off to prevent component under test from being damaged
- Memory backup function
- RS232 interface



**GPS-5030EC**

**Earth Continuity Tester**

The tester verifies the integrity (continuity) of the protective bonding of the equipment (Class I) designed to secure safety through the basic insulation and protective earthing. If the continuity of the protective bonding is confirmed, we can conclude that the equipment has the requirements for preventing electric shock even if the insulation between the primary circuit and conductive section fails and a fault current flows through the distribution system.

Model	GPS-5030EC
Test Current	3 ~ 30A
Resistance Value	0 ~ 1.2Ω
Max. Output Power	150VA
Output Voltage	0~5.5V
Resistance Display Accuracy	±5%+20μΩ
Current Display Accuracy	±5%

- Clear and concise display on a high-brightness VFD
- The invariable current
- Timing test function from 0.5s to 999s (customisable)
- Judge via comparing display windows
- Touch inspection function
- RS-232C, REMOTE and status input/output interface to make operation convenient
- Memory backup function



GPS LTD.

# Pressure Gauge



**Robust build for all environments**

**Special MIN/MAX function**

Operating temperature range: -10 to 60

Temperature stability:  $\leq 0.05\%$  FS/ °C

Pressure media: all liquid and gas compatible with AISI316

Case material: SUS304

Case size: 3" diameter

Sealing: IP65

Burst pressure 3 x FS

Over pressure: 2 x FS @  $< 350$ bar, 1.5 x FS  $> 350$ bar

Safety EN601010:2001- EN61326-1-EN61326/A1

## DTG-2000

### Digital pressure test gauge

The DTG-2000 series is a collection of low power consumption digital pressure gauges that offer an accurate and convenient replacement to standard analogue test gauges. Available in 15 standard ranges, the unit can display any of the following pressure units (Kpa, bar, Mpa, Psi, Kgf, mbar) while also possessing a tough seal and stainless steel casing. The measuring element of the gauge is a fully isolated piezoresistive pressure transducer chosen for its stability, high accuracy and reliability. Supplied as a stand-alone pressure indicator (with carry case) or in a kit with the widely-proven GPS hand pumps, the DTG-2000 series provides a reliable and economic solution for a wide range of pressure sensing applications.

- 0.2% Full Scale (FS) accuracy (includes linearity and hysteresis)
- Pressure ranges from -1 Bar to 1000Bar
- Six selectable pressure units
- Easy to read LCD display with five-digit resolution
- Additional bar graph for quick visual reference
- Minimum/maximum function
- IP65 protection Class
- Optional 4-20mA output

PRESSURE RANGE CODE:	
Range Code	Range
1G	-1 to 1 bar
2.5G	-1 to 2.5bar
4G	-1 to 4bar
6G	-1 to 6bar
10G	-1 to 10bar
16G	-1 to 16bar
25G	-1 to 25bar
40G	-1 to 40bar
60G	-1 to 60bar
100G	-1 to 100bar
250G	-1 to 250bar
400G	-1 to 400bar
600G	-1 to 600bar
800G	-1 to 800bar
1KG	-1 to 1000bar

Ordering information: DTG-2000- A – B – C

A: Pressure range code

B: Output options (0=NONE, 1=SPDT, 2=4-20mA, 3=0-20mA, 4=0-10V, 5=0-5V, 6=SPDT/0-10V)

C: Connection port (0= ¼ NPT, 1= ½ NPT, 2= ¼ BSP, 3= ½ BSP, 4=M20X1.5, 5=G ½)

Typical order code: DTG-2000-10G-0-0 would be the equivalent of 10bar, ¼NPT connection port, output NONE)



# GPS LTD. Laser Tachometer



Order code#: 915200

## TM-5200

## Digital laser contact/non-contact thermometer

Allows for the safe measurement of rotational speeds, velocities and distances. Measures rpm both optically (laser) and mechanically, surface velocities and distances mechanically. Large LCD display with single memory recall button. With an automatic display switching from optical to mechanical operation. Easy to use and very accurate, the ideal tool for workshops, schools and the tool hire industry. Supplied in carry case with manual, rpm adaptor cone, funnel, surface speed wheel and 4 x AA batteries.

- Safe measurement of rotational speeds, velocities and distances
- Easy to use and very accurate
- Measures rpm optically and mechanically
- Large LCD display
- Single memory recall button
- Supplied in carry case with rpm adaptor cone, funnel and surface speed wheel
- 4 x AA batteries included

Specifications	
Display	5 digit, 9999 counts, 18mm, yellow/green backlight LCD
Accuracy	$\pm (0.05\% + 1 \text{ digit})$
Sampling Time	0.5 second (over 120 RPM)
Range Select	Auto-range
Time Base	6MHz quartz crystal
Detecting Distance	50mm – 500mm (laser photoelectric)

### Measuring Range:

Laser tachometer: 2.5 to 99,999 RPM

Contact tachometer: 0.5 to 19,999 RPM

Surface speed (m/min): 0.05 to 1999.9

### Resolution:

Photo tachometer: 0.1 RPM (2.5 to 999.9 RPM), 1 RPM (over 1000 RPM)

Contact tachometer: 0.1 RPM (0.5 to 999.9 RPM), 1 RPM (over 1000 RPM)

Surface speed: 0.01m/min (0.05 to 99.99m/min), 0.1m/min (over 100m/min)