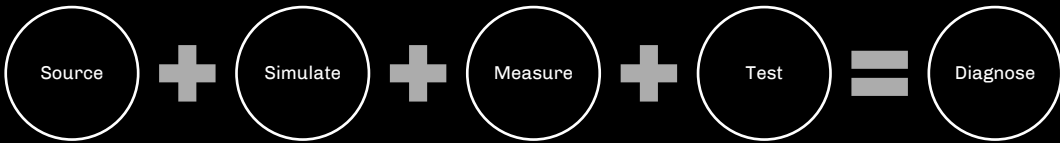




# TÜRKİYE TEMSİLCİSİ

Test ve Ölçüm Cihazları Teknolojide Çözüm Ortağınız...

Ürün Kataloğu



[www.iltekteknoloji.com.tr](http://www.iltekteknoloji.com.tr)

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- Max. 150 MHz bandwidth
- 1GSa/s sampling
- LAN
- Software included

## GPS-1000B+ series

## 2 channels

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

## GPS-1000C series

## 2/4 channels

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



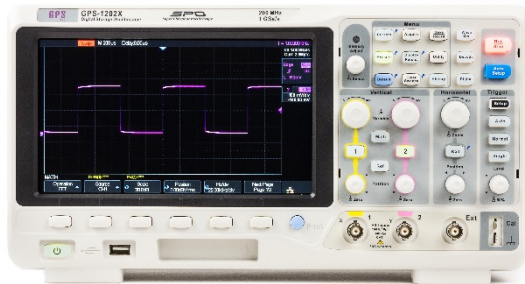
- Max. 300 MHz bandwidth
- 2GSa/s sampling
- LAN
- Up to 4 channels
- Software included




- 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

**GPS-1000X series**

**Super Phosphor Oscilloscope**

Available in two bandwidths, 100 MHz and 200 MHz, with a sampling rate of 1 GSa/s and a standard record length of 14 Mpts. The most commonly used functions can be accessed with its user-friendly one-button design. The series employs a new generation of SPO technology. With its excellent signal fidelity, background noise is lower than similar products in the industry



-   
 60k waveform capture rate
-   
 Colour temp. display
-   
 HDTV video trigger





- 100 or 200 MHz bandwidth
- Real-time sampling rate up to 1GSa/s
- Record length of 14Mpts
- Waveform capture rate up to 60,000 wfs/s
- New generation of SPO technology
- Supports 256-level intensity grading and colour temperature display
- Intelligent trigger: Edge, Slope, Pulse, Window, Runt, Interval, Time out (Dropout), Pattern
- Serial bus triggering and decode, supports protocols I2C, SPI, UART/RS232
- Video trigger, supports HDTV
- Low background noise, supports 500µV / div to 10V / div voltage scales
- 10 types of one-button shortcuts, supports Auto Setup, Default Setup, Cursor, Measure, Roll, History, Persistence, Clear Sweep, Zoom and Print

**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.



-   
 Rechargeable battery
-   
 Software included
-   
 Built for outdoor use
-   
 Remote PC control

- 60 MHz and 100 MHz 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

# Signal Generator



## GPS-2100S series

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.



Up to 30 MHz bandwidth



Single channel



EasyPulse® technology

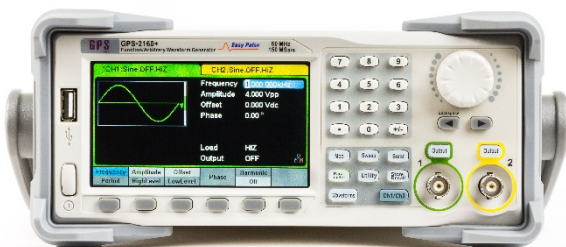


Software included

- 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 SIGLENT Digital Storage Oscilloscope
- Configurable with powerful arbitrary waveform editing software EasyWave
- Available in 5, 10 or 30 MHz models

## 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



60 MHz bandwidth



Dual channel



EasyPulse® technology



Software included

- 14-bit, 150 MSa/s, 16k point arbitrary waveform generator
- 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
- Various modulation functions
- Variable DC offset and adjustable duty cycle
- Internal/external triggering
- Gate and burst mode
- 196 built-in predefined arbitrary waveforms

## GPS-211XX series

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
- EasyWave software



Max. 160 MHz bandwidth



Dual channel



EasyPulse® technology



500MSa/s sample rate



Software included



# Spectrum Analyser



## GPS-SA3000XX series

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 analyser 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.



- All-Digital IF Technology
- Frequency Range from 9 kHz up to 3.2 GHz
- -161 dBm/Hz Displayed Average Noise Level (Typ.)
- -98 dBc/Hz @10 kHz Offset Phase Noise (1 GHz, Typ.)
- Total Amplitude Accuracy < 0.7 dB
- 10 Hz Minimum Resolution Bandwidth (RBW)
- Standard Preamplifier
- Up to 3.2 GHz Tracking Generator Kit (Opt.)
- Reflection Measurement Kit (Opt.)
- Advanced Measurement Kit (Opt.)
- EMI Pre-compliance Measurements Kit (Opt.)
- 10.1 inch WVGA(1024x600) Display



Up to 3.2 GHz bandwidth



Standard pre-amplifier



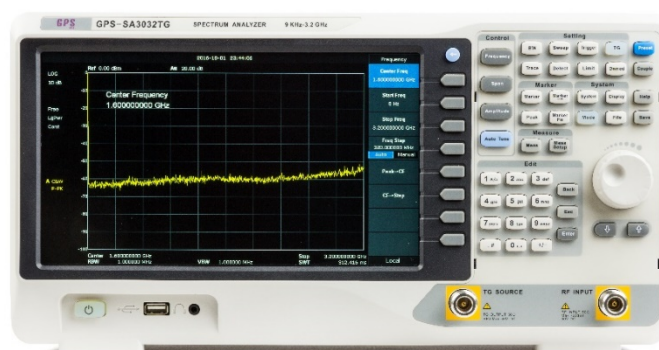
Large 10.1-inch display



1024x600 screen resolution



Compact and lightweight



## GPS-3131B

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.



BIN sorting



4 test frequencies



Portable and lightweight

- 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%

## GPS-132A

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



PC connectivity



Dual display



Portable and lightweight



Backlight

- 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



## GPS-313XB series

This series allows the user to 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 basic accuracy of 0.05%. This high precision makes it much easier to test components and ensure that they're correctly designed and working to the correct specifications. Built-in memory is also included, making it easy to sort out your testing data into files for easy processing. The tester can also be connected up to 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

- 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%
- Frequency range of 50Hz to 100kHz
- Adjustable signal level from 0.01V to 2.0V (in 10mV steps)
- Integrated memory
- LCR automatic selection
- Keypad lock
- SCPI instruction set



Test freq.  
up to  
300kHz



0.05%  
accuracy



LCD colour  
display



PC  
connectivity



Key lock



### GPS-3138B

- 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
- Frequency range of 50Hz to 200kHz
- 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

### GPS-3139B

- OPEN and SHORT correction options
- Comparator function: organises components into 10 files with 14 bins: P1 - P9, Ng, AUX, HI, IN and LO
- RS232 connection to PC and integrated Handler interface
- 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
- Frequency range from 10Hz to 300kHz caters for many different LCR components
- Automatic and manual range selection options



## GPS-3000 series

## Single or Triple output

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


Models available:

- GPS-3303S | single channel  
0~30V/0~3A
- GPS-3305S | single channel  
0~30V/0~5A
- GPS-3020S | single channel  
0~30V/0~20A
- GPS-3303D | triple out  
2 x (0~30V/0~3A) + 2.2~5V/1A
- GPS-3306D | triple output  
2 x (0~30V/0~6A) + 5V/3A
- GPS-3603D | triple output  
2 x (0~60V/0~3A) + 5V/3A



 LCD colour display

 PC connectivity

 Software included

## GPS-3303DPX

## Programmable

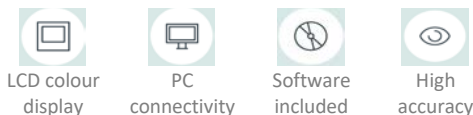
These supplies are ideal for testing a wide range of devices, circuit boards, modules, and products that require multiple power sources cost-effectively. The supplies provide two channels, each capable of outputting up to 30V and up to 3A; the third channel can provide up to 5V at 3A. Low noise and linear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

## GPS-8055C

### 5½ Digit Multimeter

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.

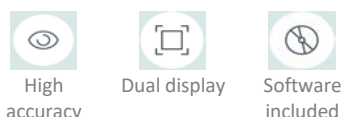


- 4.3-inch colour TFT-LCD display screen with 480\*272 resolution
- Real 5½ digits readings resolution
- Up to 150rdgs/S measurement speed
- True-RMS AC Voltage and AC Current measurements
- 1 Gb Nand Flash size, mass storage configuration files and data files
- Built-in cold terminal compensation for 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
- Configuration and measured data can be imported or exported via VXI 11, USBTMC and USB flash drive, which is convenient for users to modify, view and backup

## GPS-8145

### 4½ Digit Multimeter

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

**GPS-170/176/179**

**Handheld**

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°



True-RMS readings



Multiple PCBs



Backlight

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 /	1000V / 10µV / ±0.06%	1000V / 0.1mV / ±0.5%	600V / 10µV / ±0.5%
AC Voltage / Resolution /	1000V / 10µV / ±0.1%	1000V / 0.1mV / ±0.8%	600V / 10µV / ±1.2%
DC Current / Resolution /	10A / 0.01µA / ±1.0%	10A / 0.1µA / ±1.2%	10A / 0.1µA / ±2.5%
AC Current / Resolution /	10A / 0.01µA / ±1.5%	10A / 0.1µA / ±1.8%	10A / 0.1µA / ±3.0%
Resistance / Resolution /	40MΩ / 10mΩ / ±0.3%	40MΩ / 0.1Ω / ±0.8%	40MΩ / 0.1Ω / ±0.8%
Capacitance	40mF / 10pF	1000µF	100µF

# Clamp Meter



## GPS-230/232

### Mini clamps

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-212/275

### Large jaw clamps

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

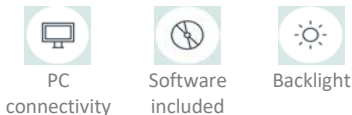
Model	GPS-212	GPS-275
Digital Display Counts	4000	4000
Display with Backlight	yes	yes
True-RMS Measurements	no	yes
Data Hold function	yes	yes
Electronic Overload Protection	yes	yes
Max. Hold function	no	yes
Zero Function for DC current	----	yes
PEAK Hold function	no	yes
Low battery indication	yes	yes
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%

**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.






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



- 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 capability)
- 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



-   
 Large LCD display
-   
 Portable and lightweight
-   
 Backlight

## ERT-10 Compact and lightweight

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.

- 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

## ERT 15C/20C/20C+ Clamp Earth 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 resistance 0.01Ω to 200/1200Ω
- Measures ground leakage current up to 20 A (20C/20C+)
- Automatic self-calibration
- Auto ranging
- Visible and Audible Alarms
- Software and advanced memory functionality with download option (20C+ model only)

Model	ERT-20C+	ERT-20C	ERT-15C
Clamp size		65mm×32mm	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 Resolution		0.05mA	---
Current accuracy		±2.5% ±1mA	---

## ERT-40

### Earth Resistance/Soil Resistivity

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.



Full kit included



Large LCD display



Portable and lightweight



Backlight

- 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

## ERT-50

### Double clamp included

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.



Full kit included



Large LCD display



Portable and lightweight



Backlight

- 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



# Micro-Ohmmeter



## GPS-885

## Portable

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, 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

### Types of tests:

- high-ohm/medium-ohm/low-ohm tester
- switch connect
- connector contact
- relay coil and contact resistance
- transformer
- inductor
- motor
- deflection coil winding resistance
- wire resistance
- metal winding resistance of vehicles, vessels and aeroplanes
- printed board line and hole resistance

Parameter	DC Resistance
Accuracy	0.05%
Measurement Range	10μΩ ~ 20MΩ
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-8815C

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.



LCD colour display



Remote connectivity



Software included

- 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

## GPS-8815D

### Ultra-high precision

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



LCD colour display



Remote connectivity



Software included

- 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

## GPS-3861

## Advanced insulation tester

The instrument is for both quality control and laboratory use. It 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.



BIN sorting



Large VFD display



Remote connectivity



Dual display



- High brightness VFD
- Measures insulation resistance and leakage current
- Output voltage: 1.0VDC~1000VDC
- Basic accuracy: <math><1G: \pm 1\%</math>  
<math>\geq 1G: \pm 3\%</math>  
<math>\geq 10G: \pm 5\%</math>
- Max charge current: 30mA $\pm$ 5mA
- Automatic test with 6 ranges
- Measuring range from 100k $\Omega$  to 1T $\Omega$
- 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

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

**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.



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

- 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 tests
- 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



Dual display



Portable and lightweight



Backlight



## GPS-8512C

## DC Electronic 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.



LCD  
colour  
display



PC  
connectivity



Software  
included



Remote  
connectivity



- 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 4000 $\Omega$  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



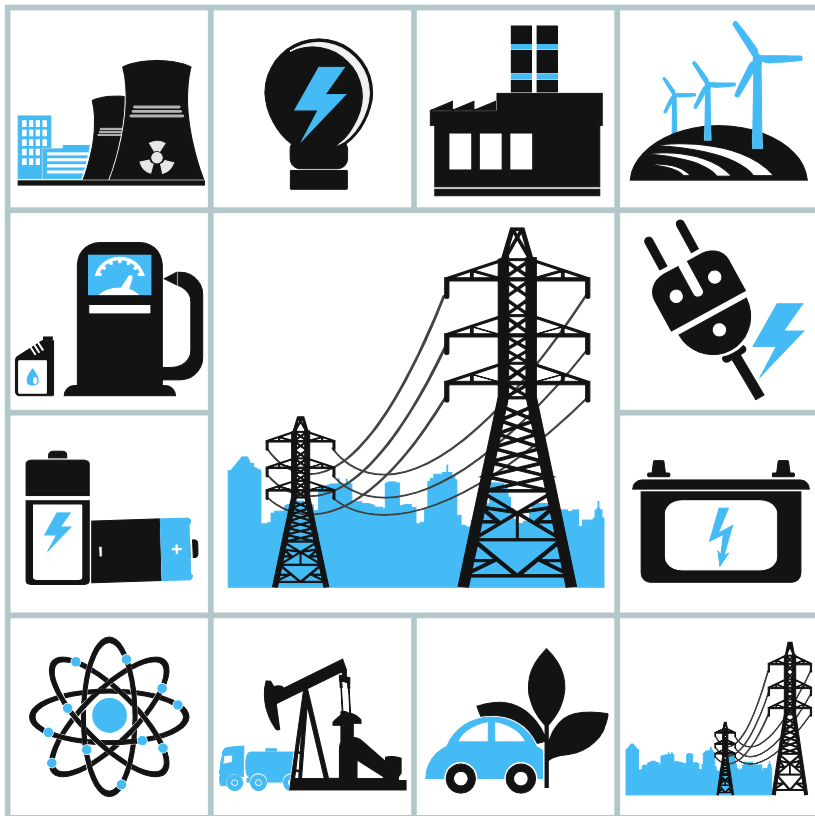
**GPS-5030EC**

**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



Since 1986, GPS is proud to have worked with a diverse range of industries including:

- Faculties and colleges having courses in electronics, electrical telecommunications, engineering departments.
- Training schools in military, telecommunication companies and electricity generation/distribution companies.
- Technical Schools.
- Research institutions, cement factories, electricity generation plants, water authorities, oil and gas industries, petrochemical industries, steel mills, railways (maintenance dept.), airlines (maintenance), rubber manufacturing.
- Electrical retail stores
- Almost all manufacturing factories, car manufacturing plants. Mine exploring companies. Standard institutions. Mobile telephones (maintenance).

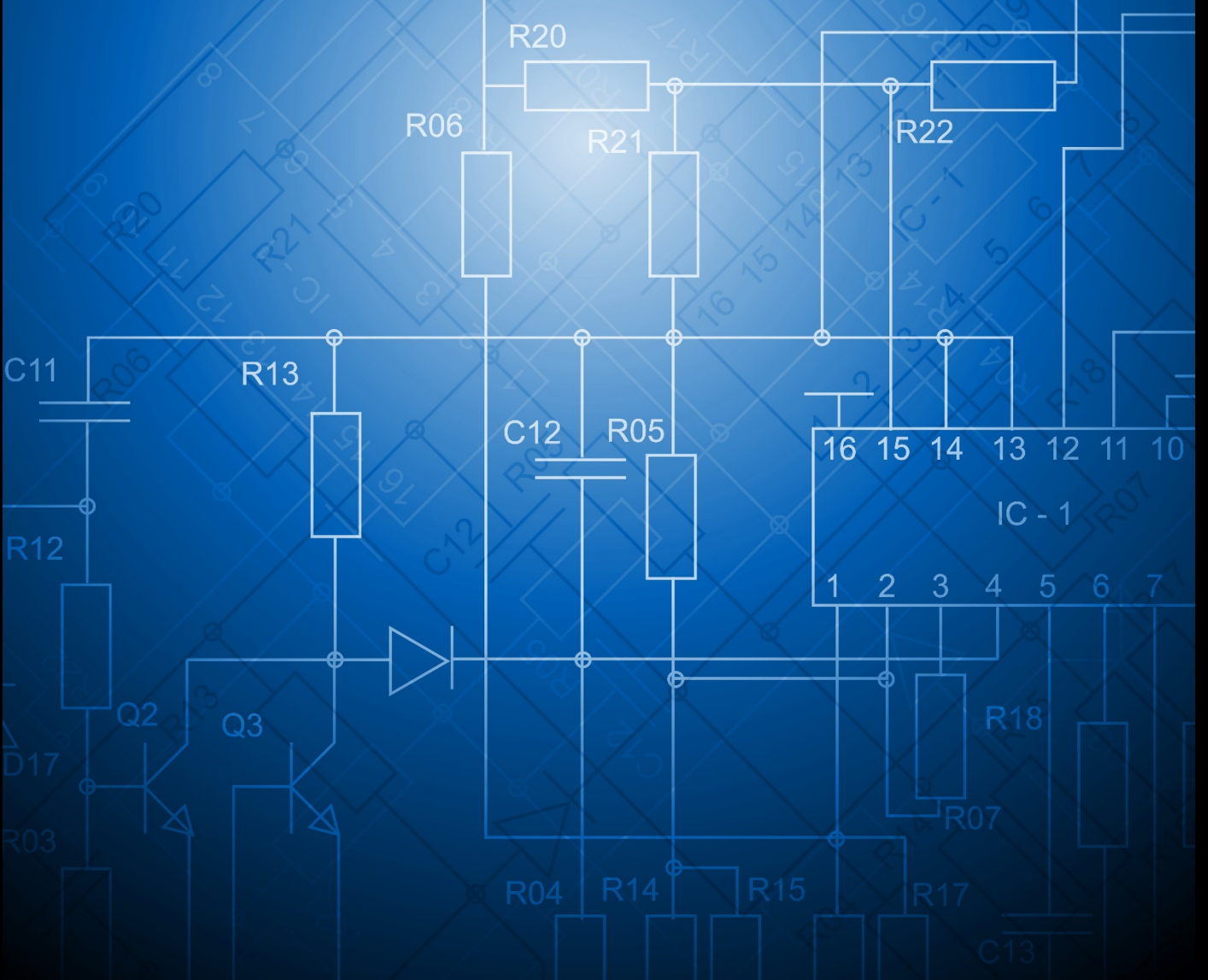
**Applications areas encountered:**

- 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
- Production testing
- Repair/maintenance services
- Component troubleshooting and sorting
- Electrical safety
- Manufacture and maintenance of microwave communications links
- Telecommunications equipment
- Cable TV systems and broadcast equipment
- Mobile communication systems
- EMI and EMC compliance testing
- Component testing
- Signal surveillance

## 1-Year Standard Warranty on all products\*

\*Subject to contract & GPS Ltd Conditions of Sale. For more information, please visit <https://www.gpslimited.com/index.php/terms-and-conditions>

# TEST VE ÖLÇÜM SİSTEMLERİ



TÜRKİYE TEK YETKİLİ

TEMSİLCİSİDİR



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