



Simply Reliable

2015 Good Will Instrument Co., Ltd.

SHORTFORM

OSCILLOSCOPES

SPECTRUM ANALYZERS

SIGNAL SOURCES

POWER SUPPLIES

BASIC T & M INSTRUMENTS

[www.gwinstek.com](http://www.gwinstek.com)

## OSCILLOSCOPES

- Digital Storage Oscilloscope
  - Real-Time/Digital Storage Oscilloscope
  - Analog Oscilloscope
  - Handheld Digital Storage Oscilloscope & Multimeter
  - Oscilloscope Education And Training Kit
- P 2 ~ 6

## SPECTRUM ANALYZERS

- 3GHz Spectrum Analyzer
  - 1GHz Spectrum Analyzer
  - Spectrum Analyzer & RF Training System
- P 7 ~ 8

## SIGNAL SOURCES

- Arbitrary Function Generator
  - True Dual Channel Arbitrary Function Generator
  - USB Modular Arbitrary Function Generator
  - DDS Function Generator
  - Analog Function Generator
  - Audio Generator
  - RF Signal Generator
- P 9 ~ 10

## POWER SUPPLIES

- Programmable Linear D.C. Power Supply
  - Linear D.C. Power Supply
  - Programmable Switching D.C. Power Supply
  - Switching D.C. Power Supply
  - Programmable A.C./D.C. Power Source
  - Programmable AC Power Source
  - A.C. Power Source
  - Programmable D.C. Electronic Load
  - D.C. Electronic Load
  - Current Shunt Meter
- P 11 ~ 14

## BASIC T & M INSTRUMENTS

- Digit Dual Measurement Multimeter
  - Digital Multimeter
  - Mini Clamp Meter
  - LCR Meter
  - Handheld LCR Meter
  - Electrical Safety Tester
  - D.C Milli-ohm Meter
  - A.C Power Meter
  - Digital IC Tester
  - Handy Linear IC Tester
  - Automatic Distortion Meter
  - A.C Millivolt Meter
  - Intelligent Counter
  - Digital Frequency Counter
  - Logic Probe & Pulser
- P 15 ~ 18





**GDS-3000 Series**  
**GDS-2000A Series**  
**GDS-1000A-U Series**

**500/350/250/150MHz Digital Storage Oscilloscope**  
**300/200/100/70MHz Digital Storage Oscilloscope**  
**150/100/70MHz Digital Storage Oscilloscope**

## OSCILLOSCOPES

GW Instek provides an entire series of oscilloscope solution, consisting of four groups: Digital Storage Oscilloscope, Analog Oscilloscope, Real Time/Digital Storage Oscilloscope, and Logic Analyzer.

### Digital Storage Oscilloscope GDS-Series

The frequency bandwidth ranges from the handy 20MHz to the high-class 500MHz. In addition, up to 5GSa/s realtime sampling rate and 10M points memory depth can pick up and hold the complete signal in order to preserve the accuracy. PC interfaces such as USB, LAN, GPIB, RS-232C, and Printer Port are integrated to the panel to satisfy data transmit/save needs.

### Analog Oscilloscope GOS-Series

In this digital competition era, the traditional analog oscilloscope surely and continuously plays the role of "observing the precise waveform" in the test measurement domain. With the frequency ranging from 20MHz to 100MHz, GOS-Series gives the perfect solution when you need to observe an unmodified signal.

### Real Time/Digital Storage Oscilloscope GRS-Series

Who said we cannot satisfy them all? GRS-Series provides you with both precision of analog waveform and convenience of digital Data storage. You can stay in between the traditional and the modern age and between analog and digital domain, obtaining the perfect Balance.

## PRODUCTS

- Digital Storage Oscilloscope
- Real-Time/Digital Storage Oscilloscope
- Analog Oscilloscope
- Handheld Digital Storage Oscilloscope & Multimeter
- Oscilloscope Education And Training Kit

500/350/250/150MHz Digital Storage Oscilloscope

CE



GDS-3504/3354/3254/3154

- \* 500/350/250/150MHz Bandwidth, 4 Input Channel
- \* 5GSa/s Real-time Sampling Rate and 100GSa/s Equivalent Time Sampling Rate
- \* 25k Points Memory for Each Input Channel
- \* VPO (Visual Persistence Oscilloscope) Technology to Display Less-Frequently-Occurred Signals
- \* 8" 800 x 600 High Resolution TFT LCD Display
- \* Unique Split Screen System with Independent Setting and Display for Each Input Channel
- \* Three Input Impedance Selections: 50Ω/75Ω/1MΩ
- \* Optional Power Analysis Software for Power Source Measurement and Analysis
- \* Optional Serial Bus Analysis Software for Trigger & Decode of I<sup>2</sup>C, SPI and UART Interfaces

500/350/250/150MHz Digital Storage Oscilloscope

CE



GDS-3502/3352/3252/3152

- \* 500/350/250/150MHz Bandwidth, 2 Input Channel
- \* 5GSa/s Real-time Sampling Rate and 100GSa/s Equivalent Time Sampling Rate
- \* 25k Points Memory for Each Input Channel
- \* VPO (Visual Persistence Oscilloscope) Technology to Display Less-Frequently-Occurred Signals
- \* 8" 800 x 600 High Resolution TFT LCD Display
- \* Unique Split Screen System with Independent Setting and Display for Each Input Channel
- \* Three Input Impedance Selections: 50Ω/75Ω/1MΩ
- \* Optional Power Analysis Software for Power Source Measurement and Analysis
- \* Optional Serial Bus Analysis Software for Trigger & Decode of I<sup>2</sup>C, SPI and UART Interfaces

300/200/100/70MHz Digital Storage Oscilloscope

CE



GDS-2304A/2204A/2104A/2074A (300/200/100/70MHz)

- \* 2GSa/s Real-time Sampling Rate and 100GSa/s Equivalent Time Sampling Rate
- \* 2MegaPoints Record Length
- \* Fastest 80,000 wfm/s of Waveform Update Rate
- \* Segmented Memory Acquisition and Waveform Search Functions
- \* Standard Model Provides I<sup>2</sup>C, UART, SPI Serial Bus Trigger and Decoding Functionalities
- \* Optional 8 or 16 digital channel with Logic analyzer(MSO)
- \* Optional 5MHz and 25MHz Function Generator
- \* Upgradable CAN/LIN bus analysis, Advanced Logic, Datalog, DVM and H-expansion Functionalities

300/200/100/70MHz Digital Storage Oscilloscope

CE



GDS-2302A/2202A/2102A/2072A (300/200/100/70MHz)

- \* 2GSa/s Real-time Sampling Rate and 100GSa/s Equivalent Time Sampling Rate
- \* 2MegaPoints Record Length
- \* Fastest 80,000 wfm/s of Waveform Update Rate
- \* Segmented Memory Acquisition and Waveform Search Functions
- \* Standard Model Provides I<sup>2</sup>C, UART, SPI Serial Bus Trigger and Decoding Functionalities
- \* Optional 8 or 16 digital channel with Logic analyzer(MSO)
- \* Optional 5MHz and 25MHz Function Generator
- \* Upgradable CAN/LIN bus analysis, Advanced Logic, Datalog, DVM and H-expansion Functionalities

200/100/70MHz Digital Storage Oscilloscope

CE



GDS-2204E/2104E/2074E(200/100/70MHz)

- \* 200/100/70MHz Bandwidth
- \* Sampling Rate : Max. 1GSa/s(4ch Model)
- \* 10M Maximum Memory Depth and VPO Waveform Display Technology
- \* Waveform Update Rate of 120,000 wfm/s
- \* 8" 800 x 480 TFT LCD Display
- \* Max. 1M pts of FFT to Get Higher Resolution in Frequency Domain
- \* Digital Filter Function
- \* Segmented Memory and Waveform Search Functions
- \* I<sup>2</sup>C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Function
- \* Data Log Function for Waveform Observation in Long Periods of Time

200/100/70MHz Digital Storage Oscilloscope

CE



GDS-2202E/2102E/2072E(200/100/70MHz)

- \* 200/100/70MHz Bandwidth
- \* Sampling Rate : Per Channel 1GSa/s(2ch Model)
- \* 10M Maximum Memory Depth and VPO Waveform Display Technology
- \* Waveform Update Rate of 120,000 wfm/s
- \* 8" 800 x 480 TFT LCD Display
- \* Max. 1M pts of FFT to Get Higher Resolution in Frequency Domain
- \* Digital Filter Function
- \* Segmented Memory and Waveform Search Functions
- \* I<sup>2</sup>C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Function
- \* Data Log Function for Waveform Observation in Long Periods of Time

200/100/70 MHz Digital Storage Oscilloscope

CE

Patent No. :  
13/671702  
ZL201420272063.8  
ZL201430150303.2



GDS-300 Series (200/100/70 MHz)

NEW

- \* 200/100/70MHz Bandwidth Selections, 2 Input Channels
- \* 1GSa/s Maximum Sample Rate
- \* Maximum 5M Memory Depth Per Channel
- \* 7" 800 x 480 Full Touch Panel Capacitive LCD Multi-Point Control, Landscape and Portrait Display
- \* Built-In 50,000 Counts DMM
- \* 30,000 Consecutive Waveform Records Logging Function, Replay Measurement Results Any Time
- \* Temperature Measurement and Logging Function
- \* Built-In Engineering Calculator, SMD Resistance Coding, Color Coding Info, and Attenuator Calculation Application Software
- \* Optional Differential Probe to Achieve Isolation Effect

200/100/70 MHz Digital Storage Oscilloscope

CE

Patent No. :  
13/671702  
ZL201420272063.8  
ZL201430150303.2



GDS-200 Series (200/100/70 MHz)

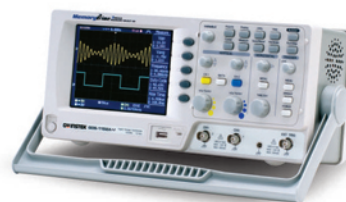
NEW

- \* 200/100/70MHz Bandwidth Selections, 2 Input Channels
- \* 1GSa/s Maximum Sample Rate
- \* Maximum 1M Memory Depth Per Channel
- \* 7" 800 x 480 Full Touch Panel Capacitive LCD Multi-Point Control, Landscape and Portrait Display
- \* Built-In 5,000 Counts DMM
- \* 30,000 Consecutive Waveform Records Logging Function, Replay Measurement Results Any Time
- \* Data Logging Function
- \* Built-In Engineering Calculator, SMD Resistance Coding, Color Coding Info, and Attenuator Calculation Application Software
- \* Optional Differential Probe to Achieve Isolation Effect

150/100/70MHz Digital Storage Oscilloscope

CE

MemoryPrime 2MEGA MEMORY BUILT-IN



GDS-1152A-U(150MHz), GDS-1102A-U(100MHz), GDS-1072A-U(70MHz)

- \* 150/100/70 MHz Bandwidth, 2 Input Channels
- \* 1GSa/s Real-time and 25GSa/s Equivalent Time Sampling Rate
- \* 2Mega Points Memory Depth
- \* 2mV-10V Vertical Scale & 1ns-50s Horizontal Range
- \* Up to 27 Auto Measurements
- \* Versatile Math Functions: +, -, x, FFT, FFTrms, Zoom FFT
- \* 5.7" Color TFT LCD Display
- \* USB Host and Device Interfaces
- \* Go/NoGo Function
- \* Data Logger
- \* Limited Lifetime Warranty

### 100/70/50MHz Digital Storage Oscilloscope

CE



**GDS-1102-U(100MHz), GDS-1072-U(70MHz), GDS-1052-U(50MHz)**

- \* 100/70/50 MHz Bandwidth, 2 Input Channels
- \* 250MSa/s Real-time & 25GSa/s Equivalent Time Sampling Rate
- \* 4k Memory Depth per Channel
- \* Save/Recall of 15 Front Panel Settings & Waveforms
- \* 5.7" Color TFT LCD Display
- \* 19 Auto Measurements
- \* Math Function: Add, Subtract, FFT
- \* USB Host & Device Ports
- \* Go/NoGo Function
- \* Data Logger
- \* Limited Lifetime Warranty

### 200/100/70MHz Digital Storage Oscilloscope

CE



**GBS-1000 Series**

- \* 200/100/70 MHz Bandwidth
- \* 4 Input Channels
- \* 1GSa/s Real-Time and 25GS/s Equivalent-Time Sampling
- \* 25k Points Record Length Maximum
- \* 5.7-in TFT Color Display
- \* 27 Automatic Measurements
- \* Math Functions Including "+", "-", "x", "FFT", "FFTms"
- \* Multi-Language Support
- \* USB Host : Support Flash Drive Storage and PictBridge-compatible Printer
- \* USB Device : PC Remote Control
- \* Data Logger

### Handheld Digital Storage Oscilloscope & Multimeter

CE



**GDS-122**

- \* 20 MHz Bandwidth
- \* 100 MSa/s Real-time Sampling Rate
- \* Digital Storage Oscilloscope & Multimeter
- \* True RMS Multimeter Volts, Amps, Ohms, Continuity, Diode
- \* Dual Independent Floating Isolated Channels (for Multimeter and Between Oscilloscope and Multimeter)
- \* Trigger Modes Free Run, Single Shot, Edge, Video
- \* USB Interfaces
- \* 6 Hour Capacity Li-ion Rechargeable Battery
- \* 3.8" Color LCD, Resolution: 320 x 240
- \* Light Weight at 690g

### Current Probe



**GCP-530/1030 & GCP-206P/425P**

### High-voltage Differential Probe



**GDP-025**

### High-voltage Differential Probe



**GDP-050/100**

	GCP-530	GCP-1030	GDP-025		GDP-050		GDP-100
<b>Probe Bandwidth</b>	DC~50MHz	DC~100MHz	<b>Probe Bandwidth</b>		<b>Probe Bandwidth</b>		
<b>Rise Time</b>	7ns or less	3.5ns or less	DC~25MHz DC~15MHz		DC~50MHz DC~25MHz	DC~100MHz DC~50MHz	
<b>Maximum Continuous Input Range</b>	30Arms	30Arms	<b>Attenuation</b>		<b>Attenuation</b>		
<b>Maximum Peak Current Value</b>	50Arms	50Arms	x20, x50, x200		x100, x200, x500, x1000		x100, x200, x500, x1000
<b>Output Voltage Rate</b>	0.1V/A	0.1V/A	<b>Accuracy</b>		<b>Accuracy</b>		
<b>Noise</b>	2.5mArms or less	2.5mArms or less	±2%		±2%		±2%
<b>Rate Supply Voltage</b>	±12V± 0.5V	±12V± 0.5V	<b>Voltage Input Range (DC+AC peak to peak)</b>		<b>Voltage Input Range (DC+AC peak to peak)</b>		
<b>Maximum Rated Power</b>	5.6VA	5.3VA	≤140Vp-p for x 20 ≤350Vp-p for x 50 ≤1400Vp-p for x 200		≤ 700Vp-p for x 100 ≤ 1400Vp-p for x 200 ≤ 3500Vp-p for x 500 ≤ 7000Vp-p for x 1000		≤ 700Vp-p for x 100 ≤ 1400Vp-p for x 200 ≤ 3500Vp-p for x 500 ≤ 7000Vp-p for x 1000
<b>Maximum Rated Voltage</b>	300V, CAT I	300V, CAT I					

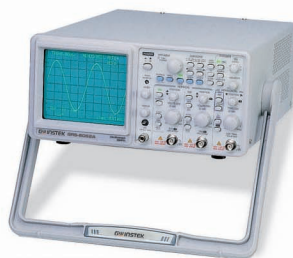
### Current Probe



**GCP-005/100/020**

### Digital Storage + Analog Oscilloscope

CE



**GRS-6052A/GRS-6032A**




### Cursor Readout Analog Oscilloscope

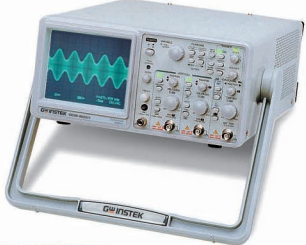


CE







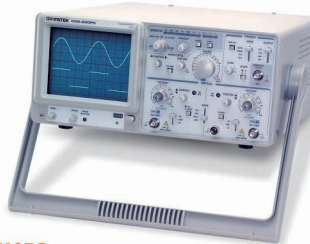
**GOS-6112**

	GCP-005	GCP-100	GCP-020	GRS-6052A/GRS-6032A		GOS-6112
<b>Probe Bandwidth</b>	40Hz~1kHz	DC~100kHz	40Hz~40kHz	* GRS-6052A : 50MHz Bandwidth, 2kW/CH Record Length		* 100MHz Bandwidth, Dual Channel, Delayed Sweep
<b>Rise Time</b>	—	—	—	* GRS-6032A : 30MHz Bandwidth, 2kW/CH Record Length		* Cursor Readout with 7 Measurements
<b>Maximum Continuous Input Range</b>	5A	0.05~10A(100mV/A) 1~100A(10mV/A)	0.1~24A(100mV/A) 0.5~240A(10mV/A)	* RTS : 100MSa/s , ETS : 500MSa/s		* Trigger Signal Output
<b>Maximum Peak Current Value</b>	50A	100A	60A(100mV/A) 600A(10mV/A)	* Pre-trigger Function		* Z-Axis Modulation Input
<b>Output Voltage Rate</b>	10mV/A	100mV/A; 10mV/A	10mV/A; 100mV/A	* 10 Sets Memory for Front Panel and Waveform Trace Save/Recall		
<b>Noise</b>	—	—	—	* ALT-MAG Function ( x5, x10, x20 )		
<b>Rate Supply Voltage</b>	—	—	—	* Vertical Mode Triggering		
<b>Maximum Rated Power</b>	—	—	—	* Roll Mode to 100s/div		
<b>Maximum Rated Voltage</b>	600V, CAT III	600V, CAT III	600V, CAT III	* Built-In RS-232C Interface		

Cursor Readout Analog Oscilloscope	Cursor Readout Analog Oscilloscope	50MHz Readout Analog Oscilloscope
<p>CE</p>  <p><b>GOS-6103</b></p>	<p>CE</p>  <p><b>GOS-6103C</b></p>	<p>CE</p>  <p><b>GOS-6051 (50MHz)</b></p>
<ul style="list-style-type: none"> <li>* 100MHz Bandwidth, Dual Channel, Delayed Sweep</li> <li>* Built-In 6 Digit Universal Counter</li> <li>* 10 Sets Memory for Front Panel Setting Save &amp; Recall</li> <li>* Time Base Auto-range</li> <li>* Cursor Readout with 7 Measurements</li> <li>* Trigger Signal Output</li> <li>* Z-Axis Modulation Input</li> </ul>	<ul style="list-style-type: none"> <li>* 100MHz Bandwidth, Dual Channel, Delayed Sweep</li> <li>* Built-In 6 Digit Universal Counter</li> <li>* 10 Sets Memory for Front Panel Setting Save &amp; Recall</li> <li>* Time Base Auto-range</li> <li>* Cursor Readout with 7 Measurements</li> <li>* Trigger Signal Output</li> <li>* Z-Axis Modulation Input</li> </ul> <p>NOTE: GOS-6103C Without CE Approved</p>	<ul style="list-style-type: none"> <li>* 2 Channels, 4 Traces : DC ~ 50MHz Bandwidth</li> <li>* Vertical Sensitivity : 1mV/div ~ 20V/div</li> <li>* CRT Readout</li> <li>* Cursor Measurement, 6 Digit Frequency Counter, 10 sets Memory for Front Panel Setting Save &amp; Recall</li> <li>* ALT MAG Function (x 5, x 10, x 20)</li> <li>* Vertical Mode Triggering</li> <li>* TV Synchronization</li> <li>* CH1 Signal Output, Z- axis Input</li> <li>* Buzzer Alarm &amp; LED Indicators</li> <li>* Compact Size(275Wx130Hx370Dmm)and Front Panel Layout Groups for Easy to Use</li> </ul>

30MHz Readout Analog Oscilloscope	Analog Oscilloscope	Analog Oscilloscope
<p>CE</p>  <p><b>GOS-6031 (30MHz)</b></p>	<p>CE</p>  <p><b>GOS-630FC</b></p>	<p>CE</p>  <p><b>GOS-653G</b></p>
<ul style="list-style-type: none"> <li>* 2 Channels, 4 Traces : DC ~ 30MHz Bandwidth</li> <li>* Vertical Sensitivity : 1mV/div ~ 20V/div</li> <li>* CRT Readout</li> <li>* Cursor Measurement, 6 Digit Frequency Counter, 10 sets Memory for Front Panel Setting Save &amp; Recall</li> <li>* ALT MAG Function (x 5, x 10, x 20)</li> <li>* Vertical Mode Triggering</li> <li>* TV Synchronization</li> <li>* CH1 Signal Output, Z- axis Input</li> <li>* Buzzer Alarm &amp; LED Indicators</li> <li>* Compact Size(275Wx130Hx370Dmm)and Front Panel Layout Groups for Easy to Use</li> </ul>	<ul style="list-style-type: none"> <li>* 30MHz Bandwidth</li> <li>* 1mV/div High Vertical Sensitivity</li> <li>* Internal 5 Digits Real-Time Frequency Counter</li> <li>* LCD Readout Display for Vertical/Horizontal/ Frequency Measurement</li> <li>* Auto Time-Base</li> <li>* Buzzer Alarm</li> <li>* TV (TV-V, TV-H) Trigger Modes</li> <li>* XY Mode</li> <li>* Z-Axis Input and External Trigger Input</li> </ul>	<ul style="list-style-type: none"> <li>* 50MHz Bandwidth, Dual Channel</li> <li>* ALT Triggering Function</li> <li>* Trigger Level Lock Function</li> <li>* Hold Off Function</li> <li>* Delayed Sweep</li> <li>* CH1 Output</li> <li>* Z Axis Modulation Input</li> </ul>

Analog Oscilloscope	Analog Oscilloscope	Analog Oscilloscope
<p>CE</p>  <p><b>GOS-652G</b></p>	<p>CE</p>  <p><b>GOS-635G</b></p>	<p>CE</p>  <p><b>GOS-622G</b></p>
<ul style="list-style-type: none"> <li>* 50MHz Bandwidth, Dual Channel</li> <li>* ALT Triggering Function</li> <li>* Trigger Level Lock Function</li> <li>* Hold Off Function</li> <li>* CH1 Output</li> <li>* Z Axis Modulation Input</li> </ul>	<ul style="list-style-type: none"> <li>* GOS-635G : 35MHz Bandwidth</li> <li>* High Sensitivity 1mV/div</li> <li>* TV Synchronization</li> <li>* ALT Triggering Function</li> <li>* Hold Off Function</li> <li>* CH1 Output</li> </ul>	<ul style="list-style-type: none"> <li>* GOS-622G : 20MHz Bandwidth</li> <li>* High Sensitivity 1mV/div</li> <li>* TV Synchronization</li> <li>* ALT Triggering Function</li> <li>* Hold Off Function</li> <li>* CH1 Output</li> </ul>

Analog Oscilloscope	Analog Oscilloscope	Oscilloscope+Function Generator
 <p><b>GOS-630</b></p> <ul style="list-style-type: none"> <li>* 30MHz Bandwidth, Dual Channel</li> <li>* High Sensitivity 1mV/div</li> <li>* TV Synchronization</li> <li>* ALT Triggering Function</li> <li>* CH1 Output</li> <li>* Economic Choice for High Quality</li> </ul>	 <p><b>GOS-620</b></p> <ul style="list-style-type: none"> <li>* 20MHz Bandwidth, Dual Channel</li> <li>* High Sensitivity 1mV/div</li> <li>* TV Synchronization</li> <li>* ALT Triggering Function</li> <li>* CH1 Output</li> <li>* Economic Choice for High Quality</li> </ul>	 <p><b>GOS-620FG</b></p> <ul style="list-style-type: none"> <li>* 20MHz Bandwidth, Dual Channel</li> <li>* Built-In 1 MHz Function Generator</li> <li>* High Sensitivity 1mV/div</li> <li>* TV Synchronization</li> <li>* ALT Triggering Function</li> <li>* CH1 Output</li> <li>* Economic Choice for High Quality</li> </ul>

Bandwidth Oscilloscope Lineup	Type	500MHz	350MHz	300MHz	250MHz	200MHz	150MHz	100MHz	70MHz	60MHz	50MHz	35MHz	30MHz	20MHz
		GDS-3000 Series	Digital	✓	✓		✓		✓					
GDS-2000A Series	Digital			✓		✓		✓	✓					
GDS-2000E Series	Digital					✓		✓	✓					
GDS-300/200 Series	Digital					✓		✓	✓					
GDS-1000A-U Series	Digital						✓	✓	✓					
GDS-1000-U Series	Digital							✓	✓		✓			
GDS-122	Digital													✓
GRS-6052A/6032A	Digital & Analog										✓		✓	
GOS-6100 Series	Analog							✓						
GOS-6000 Series	Analog										✓		✓	
GOS-653G/652G	Analog										✓			
GOS-635G/622G	Analog											✓		✓
GOS-630FC	Analog												✓	
GOS-630	Analog												✓	
GOS-620	Analog													✓
GOS-620FG	Analog													✓



**GSP-9300** 3GHz Spectrum Analyzer

## SPECTRUM ANALYZERS

GW Instek spectrum analyzer lineup fits a broad range of applications in research and design, service and maintenance, manufacturing, educational and other related fields for the frequency requirements ranging from 1GHz to 3GHz. Many features are designed to perform higher stability measurements, further signal analysis and more efficient measurement. The topographic and spectrogram display modes are developed to illustrate the signal in color shade to perform signal persistence and time progress. The SEM, ACPR, OCBW, TOI, Harmonic, CNR, CTB, CSO measurements, frequency counter and many other measurement functions are provided as well. The sequence function can create and perform a series of measurement steps without connecting with the PC. The most common interface such as LXI is included for remote control. GW Instek provides the most cost-effective options in RF measurements.

### PRODUCTS

- 3GHz Spectrum Analyzer
- 1GHz Spectrum Analyzer
- Spectrum Analyzer & RF Training System



## 3GHz Spectrum Analyzer



Patent No. ZL201220347963.5

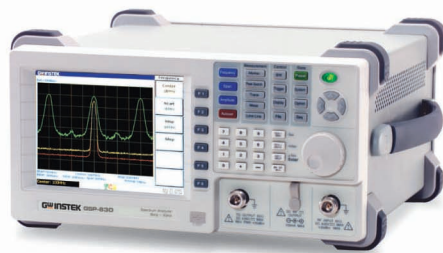


**NEW**

### GSP-9300

- \* Frequency Range : 9kHz ~ 3GHz, High Frequency Stability : 0.025ppm
- \* 3dB RBW : 1Hz ~ 1MHz in 1-3-10 steps
- \* 6dB EMI Filter : 200Hz, 9kHz, 120kHz, 1MHz
- \* Sweep Time up to 307 $\mu$ s
- \* Phase Noise : -88dBc/Hz @1GHz, 10kHz Offset
- \* Built-in Measurement Functions: 2FSK Analysis, AM/FM Demodulation & Analysis, EMC Pre-test, P1dB point, Harmonic, Channel Power, N-dB bandwidth, OCBW, ACPR, SEM, TOI, CNR, CTB, CSO, Noise Marker, Frequency Counter, Time Domain Power, Gated Sweep
- \* Built-in Spectrogram and Topographic Display Modes
- \* 886MHz IF Output for User's Extended Applications
- \* Remote Control Interface : LAN, USB, RS-232, GPIB (Optional)
- \* Built-in Preamplifier, 50dB Attenuator, and Sequence Function
- \* Optional 6.2GHz Power Sensor, Tracking Generator, Battery Back

## 3 GHz Spectrum Analyzer



### GSP-830

- \* Frequency Range : 9kHz ~ 3GHz
- \* Low Noise Floor -117dBm @1GHz, 3kHz RBW
- \* Autoset Function & Sequence Programming Function
- \* Correction Table Function
- \* ACPR, OCBW, Channel Power, N-dB Phase Jitter Measurements
- \* Pass/Fail Test with Limit Line Editing
- \* 5 Markers with  $\Delta$ Marker, Peak Functions; 10 Markers with All Peaks Function
- \* Split-Window with Separate Settings
- \* AC/DC/Battery (Option) Multi-Mode Power Operation
- \* USB/RS-232C/GPIB (Option) Interface & Direct VGA Output
- \* 6.4" TFT Color LCD, Resolution: 640x480
- \* Light Weight of 6kg Without Options
- \* Tracking Generator & Preamplifier (Option)

## GSP-730 3GHz Spectrum Analyzer/GRF-1300A RF and Communications Trainer/USG-LF44 RF Signal Generator



**NEW**

### GSP-730

- \* Frequency Range : 150kHz ~ 3GHz
- \* Autoset Function
- \* Noise level :  $\leq$  -100dBm
- \* RBW Range : 30kHz, 100kHz, 300kHz, 1MHz
- \* ACPR/CHPW/OCBW Measurement
- \* 3 Traces in Different Colors
- \* Split Window Function
- \* Limit Line Function
- \* Remote Control Software
- \* Presentation Material for Training Courses
- \* Support Interface : USB Device/Host, RS-232C
- \* 5.6" TFT LCD with VGA Output

### GRF-1300A

- \* Waveform Support :  
Sine Wave : 0.1 ~ 3MHz  
Square Wave : 0.1 ~ 3MHz  
Triangle Wave : 0.1 ~ 3MHz
- \* RF Frequency : 870 ~ 920MHz
- \* AM Modulation & FM Modulation
- \* 5 On/Off Switches and 5 Test Points to Simulate 8 Failure Conditions for Learning Outcome Test
- \* USB Interface to Provide Remote Control
- \* Mixer & 2.4GHz Band Pass Filter

### USG-LF44

- \* Frequency Range : 34.5MHz~4400MHz
- \* Output Power Range : -30dBm~0dBm
- \* Continuous Wave Signal Without any Modulation
- \* Support Fixed Frequency, Frequency Sweep, Frequency Hopping & Power Sweep Mode
- \* -107dBc/Hz Phase Noise@100kHz Offset
- \* Frequency Resolution : 10kHz
- \* PC USB Interface Powered and Controlled
- \* External PC Software Support Different Operating System

## 1 GHz Spectrum Analyzer



### GSP-810

- \* Frequency Range : 150kHz ~ 1GHz
- \* Fully Digital Phase Locked Loop Technique Design
- \* High Frequency Stability :  $\pm$ 10ppm
- \* High Resolution of Span to Measure the More Detailed Signal : Zero, 2kHz ~ 100MHz/div
- \* AM/FM Demodulation Standard
- \* Two Markers for Absolute and Relative Measurement
- \* RS-232C Interface and Software to Get Trace from GSP-810 to PC
- \* Options : Power Meter, Tracking Generator, Remote Control Software



**AFG-3081/3051**  
**AFG-2225**

**Arbitrary Function Generator**  
**Arbitrary Function Generator**

## SIGNAL SOURCES

GWInstek has been one of the major signal source suppliers for worldwide users by providing the advanced-featured products for decades. Wide product lines including AFG (Arbitrary Function Generators), DDS (Direct Digital Synthesized) Function Generators, Analog Function Generators are well provided. The AFG-3000 Series is designed for industrial, scientific research and educational applications by high sample rate and a wide frequency range. The AFG-2000 series is designed to accommodate the educational and basic industrial requirements. The SFG-1000 series is a DDS based design for entry level and educational applications. To fit versatile applications, every product line consists of series products by different frequency ranges and/or features to meet the demands. Besides, AM/FM signal generators and Audio Generators are also provided for the specific fields.

## PRODUCTS

- **Arbitrary Function Generator**
- **True Dual Channel Arbitrary Function Generator**
- **USB Modular Arbitrary Function Generator**
- **DDS Function Generator**
- **Analog Function Generator**
- **Audio Generator**
- **RF Signal Generator**

Arbitrary Function Generator	Arbitrary Function Generator	Arbitrary Function Generator
<p>CE</p>  <p><b>AFG-3081/3051</b></p> <p>TAIWAN EXCELLENCE 2012</p> <ul style="list-style-type: none"> <li>* Wide Frequency Range from 1μHz ~ 80/50MHz</li> <li>* 1μHz Frequency Resolution throughout Full Range</li> <li>* Standard Waveform : Sine, Square, Triangle, Ramp, Pulse, Noise</li> <li>* Built-In AM, FM, PWM, FSK, Sweep, Burst Functions</li> <li>* 16bit, 200MSa/s, 1M-Point Deep Arbitrary Waveform</li> <li>* Output From Any Section of 1M Point Long Waveforms</li> <li>* DWL (Direct Waveform Reconstruction) Capability</li> <li>* Arbitrary Waveform Editing PC Software</li> <li>* 4.3" High Resolution LCD Display</li> <li>* USB, RS-232C, GPIB Standard Interfaces</li> </ul>	<p>CE</p>  <p><b>AFG-2225</b></p> <ul style="list-style-type: none"> <li>* Wide Frequency Ranges From 1μHz~25MHz (sine wave)</li> <li>* Built-in Standard 120MSa/s, 10bit, 4k Points Arbitrary Function for Both Channels</li> <li>* True Dual-Channel Output, CH2 Provides the Same Characteristics as CH1</li> <li>* Dual-Channel Supports Couple, Tracking, Phase Operations</li> <li>* 1% ~ 99% Adjustable Duty Cycle for Square Waveform</li> <li>* Built-in Standard AM/FM/PM/FSK/SUM/Sweep/Burst and Frequency Counter</li> <li>* USB Host/Device Interface for Remote Control and Waveform Editing</li> </ul>	<p>CE</p>  <p><b>AFG-2100/2000 Series</b></p> <ul style="list-style-type: none"> <li>* 0.1Hz ~ 25/12/5 MHz with in 0.1Hz Resolution</li> <li>* Sine, Square, Ramp, Noise and Arbitrary Waveform</li> <li>* 20MSa/s Sampling Rate, 10 bit Vertical Resolution and 4k Point Memory for Arbitrary Waveform</li> <li>* 1% ~ 99% Adjustable Duty Cycle for Square Waveform</li> <li>* Amplitude, DC Offset and Other Key Setting Information Shown on the 3.5" LCD Screen Simultaneously</li> <li>* AM/FM/FSK Modulation, Sweep, and Frequency Counter Functions (AFG-2100 only)</li> <li>* USB Device Interface for Remote Control and Waveform Editing</li> <li>* PC Arbitrary Waveform Editing Software</li> </ul>
<p>USB Modular Arbitrary Function Generator</p> <p>CE</p>  <p><b>AFG-125/125P/225/225P</b> <i>NEW</i></p> <ul style="list-style-type: none"> <li>* Output Amplitude Range From 1mVpp ~ 2.5Vpp (into 50Ω)</li> <li>* Wide Frequency Ranges From 1μHz ~ 25MHz (sine wave)</li> <li>* 1μHz Resolution in Full Range</li> <li>* Built-in Standard 120MSa/s, 10bit, 4k Points Arbitrary Function for Both Channels</li> <li>* True Dual-Channel Output, CH2 Provides the Same Characteristics as CH1</li> <li>* Dual-Channel Supports Couple, Tracking, Phase Operations</li> <li>* 1% ~ 99% Adjustable Duty Cycle for Square Waveform</li> <li>* Friendly User Interface for Easy Parameter Setting and Parameters Display</li> <li>* Multiple Editing Methods to Edit Arbitrary Waveform Easily</li> <li>* Built-in Standard AM/FM/PM/FSK/SUM/Sweep/Burst</li> <li>* USB Device Interface for Remote Control and Waveform Editing</li> </ul>	<p>DDS Function Generator</p> <p>CE</p>  <p><b>SFG-1003/1013</b></p> <ul style="list-style-type: none"> <li>* DDS Technology and FPGA Design</li> <li>* Frequency Range : 0.1Hz ~ 3MHz</li> <li>* High Frequency Accuracy : ±20ppm</li> <li>* High Frequency Stability : ±20ppm</li> <li>* Max. Frequency Resolution : 100 mHz</li> <li>* Low Distortion Sine Wave : -55dBc, 0.1 Hz~200 kHz</li> <li>* Voltage Display (Only SFG-1013)</li> </ul>	<p>Function Generator</p> <p>CE</p>  <p><b>GFG-8255A/8250A</b> <b>GFG-8219A/8217A/8216A/8215A</b></p> <ul style="list-style-type: none"> <li>* Frequency Range : 0.5Hz ~ 5MHz(GFG-8255A/8250A) 0.3Hz ~ 3MHz(GFG-8219A/8217A/8216A/8215A)</li> <li>* Waveforms: Sine, Triangle, Square, Ramp, TTL and CMOS Output</li> <li>* Variable DC Offset Control</li> <li>* Two-Steps (-20dB x 2) and Variable Attenuator</li> <li>* Built-In 6 Digits Counter with INT/EXT Function up to 150MHz/High Resolution (Except GFG-8215A)</li> <li>* INT/EXT AM/FM Modulation ( GFG-8255A/8219A)</li> <li>* LIN/LOG Sweep Mode ( GFG-8255A/8219A/8217A)</li> <li>* GCV Output for Synchronization (GFG-8219A/8255A)</li> </ul>
<p>Function Generator</p> <p>CE</p>  <p><b>GFG-8020H/8015G</b></p> <ul style="list-style-type: none"> <li>* Frequency Range : 0.2Hz ~ 2MHz</li> <li>* Coarse and Fine Tuning</li> <li>* Waveforms : Sine, Triangle, Square, TTL Pulse</li> <li>* CMOS Output(GFG-8020H)</li> <li>* Variable DC Offset Control</li> <li>* Output Overload Protection</li> <li>* VCF Input Function</li> </ul>	<p>RF Signal Generator</p> <p>CE</p>  <p><b>USG-Series</b> <i>NEW</i></p> <ul style="list-style-type: none"> <li>* Frequency Range : 34.5MHz ~ 4400MHz</li> <li>* Output Power Range : -30dBm ~ 0dBm</li> <li>* Continuous Wave Signal Without any Modulation</li> <li>* Support Fixed Frequency, Frequency Sweep, Frequency Hopping &amp; Power Sweep Mode</li> <li>* -107dBc/Hz Phase Noise@100kHz Offset</li> <li>* Frequency Resolution : 10kHz</li> <li>* PC USB Interface Powered and Controlled</li> <li>* External PC Software Support Different Operating System</li> </ul>	<p>Audio Generator</p> <p>CE</p>  <p><b>GAG-809/810</b></p> <ul style="list-style-type: none"> <li>* Frequency Range 10Hz ~ 1MHz</li> <li>* 0.02% Low Sine wave Distortion (GAG-810 Only)</li> <li>* 6 Steps Output Attenuator</li> <li>* EXT SYNC Function</li> </ul>



**PPH-1503**  
**PSW-Series**  
**PEL-3000 Series**

**Programmable High Precision D.C. Power Supply**  
**Programmable Multi-Range D.C. Power Supply**  
**Programmable D.C. Electronic Load**

## POWER SUPPLIES

Stemming from the design and manufacture demands of electronic industries, GW Instek offers diverse power supply product lines to meet users' demand for a variety of applications. Based on different needs, the product lines can be divided into several categories including DC Power Supply, AC Power Source and DC Electronic Load. For DC Power Supply, the products can be briefly categorized by the following types, Linear, Switching, Programmable or Non-programmable, Single or Multiple Outputs, High Precision or Affordable Price, Dual Range and Wide Combinations of Voltage and Current, which can be selected to meet the application requirements.

The new APS-Series AC/DC Power Source is not only a precision AC/DC power source, but also a powerful analyzer, containing abundant features for the testing and characteristic analysis of power supplies, electronic devices, components and modules. In addition to AC/ DC Power Source the APS-Series is fully programmable to simulate different power outputs. Sequence can be created by using arbitrary waveforms as well as voltage or frequency sweeps.

GW Instek offers more than 100 power supply products suitable for the requirements of Electronic Assembly Testing, Education, Component Testing, Wireless Product Testing, Burn-in, Battery-Power Product Testing Automotive, Aerospace industries and so on.

## PRODUCTS

- Programmable Linear D.C. Power Supply
- Linear D.C. Power Supply
- Programmable Switching D.C. Power Supply
- Switching D.C. Power Supply
- Programmable A.C./D.C. Power Source
- Programmable AC Power Source
- A.C. Power Source
- Programmable D.C. Electronic Load
- D.C. Electronic Load
- Current Shunt Meter

**Programmable D.C. Electronic Load**



PEL-3000 Series

NEW

- \* Operating Voltage (DC) : 1.5V~150V
- \* Operating Mode:C.C/C.V/C.R/C.P/C.C+C.V/C.R+C.V/C.P+C.V
- \* Parallel Connection of Inputs for Higher Capacity(Max:9,450W)
- \* Support of High Slew Rate : Max 16A/μs
- \* Run Program Function (Go/NoGo Test)
- \* Sequence Function for High Efficient Load Simulations
- \* Dynamic (Switching) Function:0.0166Hz~20kHz
- \* Soft Start Function : Off/On(1~200ms, Res:1ms)
- \* Adjustable OCP/OVP/OPP/UVV Setting
- \* Multi Interface:USB 2.0 Device/Host, RS-232, GPIB(Optional)

Model	PEL-3021	PEL-3041	PEL-3111	PEL-3211
Voltage	1.5V~150V	1.5V~150V	1.5V~150V	1.5V~150V
Current	0~35A	0~70A	0~210A	0~420A
Power	175W	350W	1050W	2100W

**Programmable AC Power Source**



PEL-3000 Series (Combination Model)

NEW

- \* Operation Voltage (DC) 1.5V~150V
- \* Operation Mode : C.C/C.P
- \* Parallel Connection of Inputs for Higher Capacity (Max : 9450W)
- \* Support of High Slew Rate: Max 16A/μs
- \* Run Program Function (Go/NoGo Test)
- \* Sequence Function for High Efficient Load Simulations
- \* Dynamic (Switching) Function : 0.0166Hz~20kHz
- \* Multi Interface : USB2.0 Device/Host, RS-232, GPIB(Optional)

Model	PEL-3212	PEL-3323	PEL-3424	PEL-3535	PEL-3322	PEL-3533	PEL-3744	PEL-3955
Voltage	1.5V~150V	1.5V~150V	1.5V~150V	1.5V~150V	1.5V~150V	1.5V~150V	1.5V~150V	1.5V~150V
Current	0~420A	0~630A	0~840A	0~1050A	0~630A	0~1050A	0~1470A	0~1890A
Power	2100W	3150W	4200W	5250W	3150W	5250W	7350W	9450W

**Programmable D.C. Electronic Load**



PEL-2000 Series



- \* 10 Sets of Preset Memory \* 120 Sets of Setup Memory
- \* Parallel Operation for Increased Capacity
- \* Sequence Function to Enable Load Simulations
- \* External Waveform Control Functions
- \* OPP/OCP/OVP/OTP Protection all Level Could be Changed
- \* Multi-Interface USB Device/Host, RS-232C, GPIB(Optional) Support

Model	PEL-2020		PEL-2030		PEL-2040		PEL-2041		
	L/R	L/R	Left	Right	Low	High	Low	High	
Channel Range	Low	High	N/A	Low	High	Low	High	Low	High
Power	100W	100W	30W	250W	250W	350W	350W	350W	350W
Current	0~2A	0~20A	0~5A	0~4A	0~40A	0~7A	0~70A	0~1A	0~10A
Voltage	1~80V	1~80V	1~80V	1~80V	1~80V	1~80V	1~80V	1~80V	2.5~500V
MIN Operating Voltage(DC)	1.0V at 2A	1.0V at 20A	1.0V at 5A	1.0V at 4A	1.0V at 40A	1.0V at 7A	1.0V at 70A	1.0V at 1A	2.5V at 10A

**Programmable AC/DC Power Source**



APS-1102A

NEW

- \* Output Capacity:1kVA (AC Mode) or 1kW (DC Mode)
- \* Output Mode:AC and AC+DC Combined with any of the Four Signal Sources
- \* Signal Sources:Internal (INT), External(EXT), Internal +External(ADD) and Synchronization(SYNC)
- \* Waveform:SINE WAVE,SQUARE WAVE,ARBITRARY WAVE
- \* Measurement Functions:Voltage,Current,Power, Frequency, Power Factor, CF and Harmonic Current
- \* Sequence Function Allows programming of Output Patterns
- \* 30 Sets of Save/Recall Memory
- \* Multiple-Interfaces:USB(USB1.1 USBTMC), RS-232, Control I/O

Mode	Range	Output Voltage	Output Current(Max)	Output Capacity
<b>AC</b>	100V	0~155.0V	10A	1000VA
	200V	0~310.0V	5A	1000VA
<b>DC</b>	100V	~220V~+220V	10A	1000W
	200A	~440V~+440V	5A	1000W

**Programmable Switching D.C. Power Supply**



PSH-Series

- \* Wide Input Voltage Range and High Power Factor (P.F)
- \* High Efficiency and High Power Density
- \* Constant Voltage and Constant Current Operation
- \* Over Voltage , Over Current and Over Temperature Protection
- \* Output ON/OFF Control
- \* Standard Interface : RS-232C
- \* Optional Interface : GPIB (IEEE-488.2 )
- \* LabVIEW Driver

Model	PSH-2018A	PSH-3610A	PSH-3620A	PSH-3630A
Power	360W	360W	720W	1080W
Voltage	20V	36V	36V	36V
Current	18A	10A	20A	30A

**Programmable Multi-Range D.C. Power Supply**



PSW-Series (High Voltage)

NEW

- \* Voltage Rating : 250V/800V, Output Power Rating : 360W~1080W
- \* C.V / C.C Priority ; Particularly Suitable for the Battery and LED Industry
- \* Parallel Operation (3 units in Parallel) for (30V/80V/160V/250V/800V)
- \* 1/2, 1/3, 1/6 Rack Mount Size Design (EIA/JIS Standard) for 360W, 720W, 1080W

Model	PSW 250-4.5	PSW 250-9	PSW 250-13.5	PSW 800-1.44	PSW 800-2.88	PSW 800-4.32
Channel	1	1	1	1	1	1
Power	360W	720W	1080W	360W	720W	1080W
Voltage	0~250V	0~250V	0~250V	0~800V	0~800V	0~800V
Current	0~4.5A	0~9A	0~13.5A	0~1.44A	0~2.88A	0~4.32A

**Programmable Multi-Range D.C. Power Supply**



PSW-Series (Low Voltage)

- \* Voltage Rating : 30V/80V/160V, Output Power Rating : 360W~1080W
- \* C.V/C.C Priority ; Particularly Suitable for the Battery and LED Industry
- \* Series Operation(2 units in Series)for(30V/80V/160V), Parallel Operation(3 units in Parallel) for (30V/80V/160V)
- \* 1/2, 1/3, 1/6 Rack Mount Size Design (EIA/JIS Standard) for 360W, 720W, 1080W

Model	PSW 30-36	PSW 30-72	PSW 30-108	PSW 80-13.5	PSW 80-27	PSW 80-40.5	PSW 160-7.2	PSW 160-14.4	PSW 160-21.6
Channel	1	1	1	1	1	1	1	1	1
Power	360W	720W	1080W	360W	720W	1080W	360W	720W	1080W
Voltage	0~30V	0~30V	0~30V	0~80V	0~80V	0~80V	0~160V	0~160V	0~160V
Current	0~36A	0~72A	0~108A	0~13.5A	0~27A	0~40.5A	0~7.2A	0~14.4A	0~21.6A

**Programmable Switching D.C. Power Supply**



PSP-Series

- \* 3 Step Fan Speed Control
- \* LCD Display
- \* Output ON/OFF Control
- \* OVP/OCP/OTP/OPP Protection
- \* Normal, +% & -% Output Operation Key
- \* High Efficiency and High Power Density
- \* Standard : RS-232C
- \* Optional European Type Jack Terminal

Model	PSP-603	PSP-405	PSP-2010
Voltage	0~60V x 1	0~40V x 1	0~20V x 1
Current	0~3.5A x 1	0~5A x 1	0~10A x 1

**Programmable Switching D.C. Power Supply**



PSU-Series

NEW

- \* Voltage Rating : 6V/12.5V/20V/40V/60V
- \* Output Power Rating : 1200W ~ 1520W
- \* C.V/C.C Priority; Particularly Suitable for the Battery and LED Industry
- \* Series and Parallel Operation (2 Units in Series/4 Units in Parallel Maximum)
- \* High Efficiency and High Power Density
- \* 19" Rack Mount Size Design

Model	PSU 6-200	PSU 12.5-120	PSU 20-76	PSU 40-38	PSU 60-25
Channel	1	1	1	1	1
Power	1200W	1500W	1520W	1520W	1500W
Voltage	0~6V	0~12.5V	0~20V	0~40V	0~60V
Current	0~200A	0~120A	0~76A	0~38A	0~25A

**Programmable Switching D.C. Power Supply (Low Voltage)**



**PSB-2400L/PSB-2400L2  
PSB-2800L/PSB-2800LS**

**NEW**

- \* Output Voltage Rating:0~80V, Output Power Rating:400W~800W
- \* Constant Power Output for Multi-Range (V & I) Operation
- \* Series and Parallel Operation for Low Voltage Models
- \* Parallel Operation for High Voltage Models
- \* 90 Degree Angle Rotatable Control Panel
- \* Sequence Function Edited by PC will be controlled Through Power Supply interfaces
- \* Standard Interface:RS-232C/USB/Analog Control Interface
- \* Optional Interface:GPIB

\*PSB-2800LS (Booster Unit) it could be used with PSB-2800L Only

Model Number	PSB-2400L	PSB-2800L	PSB-2400L2	PSB-2800LS
Number of Channel	1	1	2	NA
Output Power	400W	800W	800W	800W
Output Voltage	0~80V	0~80V	0~80V x 2CH	80V
Output Current	0~40A	0~80A	0~40A x 2CH	80A

**Programmable Switching D.C. Power Supply (High Voltage)**



**PSB-2400H/PSB-2800H**

**NEW**

- \* Output Voltage Rating:0~800V,Output Power Rating:400W~800W
- \* Constant Power Output for Multi-Range (V & I) Operation
- \* Parallel Operation (2 Units in Parallel Maximum)
- \* 90 Degree Angle Rotatable Control Panel
- \* Sequence Function Edited by PC will be controlled Through Power Supply interfaces
- \* Standard Interface:RS-232C/USB/Analog Control Interface
- \* Optional Interface:GPIB

Model Number	PSB-2400H	PSB-2800H
Number of Channel	1	1
Output Power	400W	800W
Output Voltage	0~800V	0~800V
Output Current	0~3A	0~6A

**Multiple Output Programmable Linear D.C. Power Supply**



**GPD-2303S/3303S/4303S/3303D**

- \* Digital Panel Control
- \* User-Friendly Operation, Coarse/Fine Volume Control
- \* Key-Lock & Warning Buzzer
- \* Tracking Series and Parallel Mode
- \* Smart Cooling Fan Achieving Low Noise
- \* Display Resolution: 1mV/1mA(GPD-2303S/3303S/4303S)  
100mV/10mA(GPD-3303D)
- \* Standard Interface: USB \* Output ON/OFF
- \* 4 Sets Save/Recall

Model	GPD-2303S			GPD-3303S			GPD-4303S			GPD-3303D		
	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
Voltage	0-30V	0-30V	0-30V	0-30V	0-30V	0-30V	0-5V	0-5V	0-5V	0-30V	0-30V	0-30V
Current	0-3A	0-3A	0-3A	0-3A	0-3A	0-3A	0-3A or 0-1A	0-1A	0-1A	0-3A	0-3A	0-3A

**Programmable High Precision D.C. Power Supply**



**PPH-1503**

**NEW**

- \* Dual Range Output (0~15V/0~3A or 0~9V/0~5A) ; Output Power 45W
- \* 3.5 Inch TFT LCD Display
- \* Constant Voltage and Constant Current Operation
- \* Built-in DVM Measurement Function
- \* High Measurement Resolution(1mV/0.1mA for 5A Range) ; (1mV/0.1µA for 5mA Range)
- \* External Relay Control Output On/Off
- \* 5 Sets of Preset Memory Including Power Output ON/OFF States
- \* High Speed Transient Recovery Time (<40µs within 100mV;<80µs within 20mV)
- \* OVP/OCV/OTP Protection to Prevent DUT Damage
- Standard Multiple Interfaces : USB/LAN/GPIB LabView Driver and PC Remote Control Software

**Programmable Dual-Range D.C. Power Supply**



**PSM-Series**

- \* High Resolution: 1mV/1mA
- \* 0.01% Load/Line Regulation, 350µVrms Ripple
- \* Auto Step Runing with timer Setting and 100 Sets Memory
- \* Safety Design:OVP,OCV & OTP;Output ON/OFF Control
- \* Self-Test and Software Calibration
- \* High Visible Vacuum-Fluorescent Display
- \* Front and Rear Output Terminal \* Labview Driver
- \* Standard Interface : RS-232C, GPIB

Model	PSM-2010	PSM-3004	PSM-6003
Low Range	0 ~ 8V/20A	0 ~ 15V/7A	0 ~ 30V/6A
High Range	0 ~ 20V/10A	0 ~ 30V/4A	0 ~ 60V/3.3A

**Programmable D.C. Power Supply**



**PSS-Series**

- \* High Resolution 10mV, 1mA
- \* Over-Voltage, Over-Current, Over Temperature Protection
- \* Intelligent Fan Control
- \* Built-In Buzzer Alarm
- \* Standard Interface : RS-232C
- \* Option Interface : GPIB(IEEE-488.2) \* Labview Driver (Unable to Install RS-232C and GPIB Simultaneously)
- \* Optional European Jack Type Terminal

Model	PSS-2005	PSS-3203
Voltage	0 ~ 20V x 1	0 ~ 32V x 1
Current	0 ~ 5A x 1	0 ~ 3A x 1

**Multiple Output Programmable Linear D.C. Power Supply**



**PPT-1830/3615 & PPE-3323**

- \* Easy Operation with UP/DOWN Key
- \* High Resolution: 10mV, 1mA
- \* Over Voltage Protection, Over Current Protection(PPT-Series by Hardware)
- \* 50 Sets Memory, Triple Output, Auto Tracking
- \* Self Test and Software Calibration
- \* Auto Step Running With Timer Setting
- \* FRONT/REAR Output and Sense Switch Selectable
- \* Auto Series and Parallel Operation
- \* IEEE-488.2 and SCPI Compatible Command set
- \* GPIB Standard Interface & LabVIEW Driver Software
- \* High Stability, Low Drift, 4 Digit Display
- \* IEC Safety Regulation

**Programmable D.C. Power Supply**



**PST-Series**

- \* High Resolution Triple Output 10mV, 1mA
- \* 192 x 128 LCD Display, Simultaneously Shows Settings and Measuring Result
- \* Over-Voltage, Over-Current, Over Temperature Protection
- \* 100 Sets Memory, Auto Step Running With Timer Setting
- \* Provided Auto Series and Parallel Function
- \* Standard Interface : RS-232C \* Labview Driver
- \* Option Interface : GPIB (IEEE-488.2)

Model	PST-3202		PST-3201
Voltage	0 ~ 32V x 2, 0 ~ 6V x 1		0 ~ 32V x 3
Current	0 ~ 2A x 2, 0 ~ 5A x 1		0 ~ 1A x 3

**Switching D.C. Power Supply**



**SPS-1230/1820/2415/3610/606**

- \* Two Digital Panel Meters
- \* 0.01 % High Regulation
- \* Constant Voltage and Constant Current Operation
- \* High Efficiency
- \* High Power Density
- \* Overload and Reverse Polarity Protection

Model	SPS-1230	SPS-1820	SPS-2415	SPS-3610	SPS-606
Voltage	12V	18V	24V	36V	60V
Current	30A	20A	15A	10A	6A

### Multiple Output Dual Range D.C. Power Supply

CE



SPD-3606

- \* Three Independent, Isolated Output
- \* CH1/CH2 : Dual Range Output of 30V/6A or 60V/3A to Cover Wide Application
- \* CH3 Adjustable Output : 0.1~5V/3A
- \* High Efficiency Power Conversion (Up to 25% then Traditional Power Supply)
- \* Remote Control Output On/Off
- \* OVP/OTP
- \* Fully Safety Design: Reverse Polarity, CH3 Overload Protection, Safe Output Setting, CC/CV Mode
- \* Voltage/Current protection Knob (Option)

### Linear D.C. Power Supply

CE



GPS-Series/GPS-3030DD

- \* Light and Compact Design
- \* 0.01% High Regulation
- \* Constant Voltage and Constant Current Operation
- \* Series or Parallel Operation Function
- \* Remote Control for External Programmable
- \* Internal Select for Continuous or Dynamic Load
- \* Overload and Reverse Polarity protection

Meter	Model	Output Volts	Output Amps
Analog	GPS-1850	0 ~ 18 V	0 ~ 5 A
	GPS-3030	0 ~ 30 V	0 ~ 3 A
	GPS-6010	0 ~ 60 V	0 ~ 1 A
Digital	GPS-1830D	0 ~ 18 V	0 ~ 3 A
	GPS-1850D	0 ~ 18 V	0 ~ 5 A
	GPS-3030D	0 ~ 30 V	0 ~ 3 A
	GPS-3030DD	0 ~ 30 V	0 ~ 3 A

### Linear D.C. Power Supply

CE CE Approved Only for GPR-1820HD, GPR-3510HD, GPR-7550D, GPR-11H30D



GPR-H Series

- \* 0.01% High Regulation ; Low Ripple and Noise
- \* Constant Voltage and Constant Current Operation
- \* Internal Select for Continuous or Dynamic Load
- \* Overload and Reverse Polarity Protection
- \* 3 1/2 Digit 0.5" LED Display
- \* Internal Select for Continuous or Dynamic Load (for GPR-3510HD/GPR-6060D/GPR-7550D)

Meter	Model	Output Volts	Output Amps
Digital	GPR-0830HD	0 ~ 8 V	0 ~ 30 A
	GPR-1820HD	0 ~ 18 V	0 ~ 20 A
	GPR-3510HD	0 ~ 35 V	0 ~ 10 A
	GPR-6060D	0 ~ 60 V	0 ~ 6 A
	GPR-7550D	0 ~ 75 V	0 ~ 5 A
	GPR-11H30D	0 ~ 110 V	0 ~ 3 A
	GPR-30H10D	0 ~ 300 V	0 ~ 1 A

### Multi-Output D.C. Power Supply

CE



GPS-2303/3303/4303

- \* 2, 3 and 4 Independent Isolated Output
- \* 0.01% Load and Line Regulation \* Low Ripple and Noise
- \* Tracking Operation and Auto Series/Parallel Operation
- \* Output Voltage and Current Setting When Output Disable (Except for GPS-2303)
- \* Fan Speed Control Circuit to Minimize Fan Noise

Model	GPS-2303		GPS-3303		GPS-4303				
	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH3	CH4
Voltage	0 ~ 30V	0 ~ 30V	5V Fixed	0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V			
Current	0 ~ 3A	0 ~ 3A	3A Max.	0 ~ 3A	1A Max.	1A Max.			
Tracking Series Voltage	0 ~ 60V	0 ~ 60V	-	0 ~ 60V	-	-			
Tracking Parallel Current	0 ~ 6A	0 ~ 6A	-	0 ~ 6A	-	-			

### Triple Output Linear D.C. Power Supply

CE (Note: GPC-3060D/6030D are not CE approved.)



GPC-Series

- \* Four Digital Panel Meters (GPC-3030DQ)
- \* Triple Output ; Auto Tracking ; 5V,3A Fixed Output
- \* Auto Series and Parallel Operation
- \* Constant Voltage and Constant Current Operation
- \* Low Ripple and Noise
- \* Internal Select for Continuous or Dynamic Load
- \* Overload and Reverse Polarity Protection

Meter	Model	Series	Parallel
Digital	GPC-1850D	36V 5A	18V 10A
	GPC-3030D	60V 3A	30V 6A
	GPC-6030D	120V 3A	60V 6A
	GPC-3060D	60V 6A	30V 12A
	GPC-3030DQ	60V 3A	30V 6A

### Linear D.C. Power Supply



GPR-U Series

- \* 0.01% High Regulation
- \* Constant Voltage and Constant Current Operation
- \* Low Ripple and Noise
- \* Overload and Reverse Polarity Protection
- \* Built-In OverVoltage and OverCurrent Tripped Crowbar

Model	Output Volts	Output Amps
GPR-1850HD	0 ~ 18 V	0 ~ 50 A
GPR-3520HD	0 ~ 35 V	0 ~ 20 A
GPR-6015HD	0 ~ 60 V	0 ~ 15 A
GPR-7510HD	0 ~ 75 V	0 ~ 10 A
GPR-16H50D	0 ~ 160 V	0 ~ 5 A
GPR-25H30D	0 ~ 250 V	0 ~ 3 A
GPR-35H20D	0 ~ 350 V	0 ~ 2 A
GPR-50H15D	0 ~ 500 V	0 ~ 1.5 A
GPR-60H15D	0 ~ 600 V	0 ~ 1.5 A
GPR-100H5D	0 ~ 1000 V	0 ~ 0.5 A

### 500/1000 VA Programmable AC Power Source

CE



APS-7000 Series

NEW

- \* 4.3" large LCD Display \* Standard Interface:USB/LAN
- \* Measurement Function:Voltage, Current, Power(W), Frequency,Power Factor,Crest Factor, Apparent Power(VA)
- \* Frequency:45.0~500.0Hz(Standard); 45.0~999.9Hz(Opt)
- \* 10sets of Saves/Recall Sequence Memory with 255 step for each memory
- \* Optional Interface:RS-232&USB CDC, GPIB, External Control I/O, Program Mode External I/O

Model	APS-7050	APS-7100
Output Capacity(VA)	500VA	1000VA
Output Voltage (V)	0~310Vrms	0~310Vrms
Output Frequency(Hz)	45.0~500.0Hz	45.0~500.0Hz
Maximum Current (RMS)	0~155 Vrms 0~310 Vrms	4.2A 2.1A
Maximum Current (PEAK)	0~155 Vrms 0~310 Vrms	8.4A 4.2A
Maximum Current with Option APS-003 for Voltage Extended up to 600V(RMS)	0~600 Vrms	1.05A 2.1A
Maximum Current with Option APS-003 for Voltage Extended up to 600V(PEAK)	0~600 Vrms	4.2A 8.4A

### A.C. Power Source



APS-9301/9501/9102

- \* True RMS Meter
- \* Frequency, Volts, Amps, Watts and Power Factor Display
- \* 4 Sets of "Save/Recall" Voltage/Frequency Memory
- \* Over Current Protection and Over Temperature Protection

Model	APS-9301	APS-9501	APS-9102
Output Capacity	300 VA	500 VA	1k VA
Output Voltage	0.0~300.0 VAC, 0.1V/step. (110,220V selectable)		
Output Current	0~150V 0~300V	2.6 Arms Max. 1.3 Arms Max.	4.2 Arms Max. 2.1 Arms Max.

### Precision Current Shunt Meter

CE



PCS-1000

NEW

- \* 6 1/2 Digit Measurement Resolution
- \* Dual Measurement for Voltage and Current
- \* AC & DC Current Measurement Range : 30mA/300mA/3A/30A/300A (Maximum)
- \* AC Voltage Measurement Range : 200mV/2V/20V/200V/600V (Maximum)
- \* DC Voltage Measurement Range : 200mV/2V/20V/200V/1000V (Maximum)
- \* Auto Zero Circuit
- \* Standard Interfaces : USB, GPIB



**GDM-8300 Series** Dual Measurement Multimeter  
**LCR-8000G Series** 10/5/1MHz High Precision LCR Meter  
**GPT-9000 Series** Electrical Safety Tester

## BASIC T & M INSTRUMENTS

The GW Instek Basic Test & Measurement Instruments can be divided into 4 groups: Digital Meters, LCR Meters, Safety Testers and Other Application T&M Instruments.

In the Digital Meter group, we provide 6 1/2 digit, 5 1/2 digit, 4 1/2 digit, as well as 3 1/2 digit benchtop multimeters, 4 1/2 and lower digit handheld multimeters as well as a range of mini clamp meters.

LCR Meter includes two main series, LCR-8000G and LCR-800 Series. Depending on the model, these series feature frequency of 2kHz ~ 10MHz, and accuracy of 0.05% ~ 0.1%.

For Safety testing, GPT-9000 Series safety testers provide you with a safe and quick measurement for AC/DC withstanding voltage tests, insulation resistance tests, and ground bond tests. GLC-9000 leakage current tester supports all the major leakage current test standards for medical and general electrical equipment.

In order to provide a complete “one stop shopping” solution, D.C. milliohm meters, A.C. power meter, 120MHz ~ 2.7GHz high frequency counter, automatic distortion meter and A.C. millivolt meters are also provided in this product line of Other application T&M instruments.

## PRODUCTS

- Digit Dual Measurement Multimeter
- Digital Multimeter
- Mini Clamp Meter
- LCR Meter
- Handheld LCR Meter
- Electrical Safety Tester
- D.C Milli-ohm Meter
- A.C Power Meter
- Digital IC Tester
- Handy Linear IC Tester
- Automatic Distortion Meter
- A.C Millivolt Meter
- Intelligent Counter
- Digital Frequency Counter
- Logic Probe & Pulser



### 6 1/2 Digit Dual Measurement Multimeter

CE



GDM-8261A

- \* 6 1/2 Digit Display
- \* DCV Basic Accuracy : 0.0035%
- \* Dual Measurement to Perform Two Selected Measurements Simultaneously
- \* 11 Measurement Functions & 10 Math Functions
- \* Measuring Resolution : 100pA for DCI and 1nA for ACI
- \* Temperature Measurement
- \* Up to 2,400 rdgs/s Data Transmission Speed
- \* Standard Interfaces : USB, RS-232C, Digital I/O
- \* Optional Interfaces : GPIB or LAN
- \* Optional Scanner Card : GDM-SC1
- \* PC Software : DMM-Viewer, LabVIEW Driver

### 5 1/2 Digit Dual Measurement Multimeter

CE



GDM-8351

NEW

- \* 120,000 Counts, VFD Display
- \* Auto/Manual Selection
- \* Dual Measurement/Dual Display
- \* The Basic Precision of DC Voltage : 0.12%
- \* Selectable Measurement Speeds, the Mmaximum:320 Readings/s
- \* True RMS (AC, AC+DC) Measurements
- \* 12 Different Measurement Functions:AC/DC Voltage, AC/DC Current, AC+DC Voltage/Current, 2W/4W Resistance, Continuity Beeper, Diode Test, Capacitance, Frequency, Temperature
- \* Many Auxiliary Functions : Max./Min., REL/REL#, Compare, Hold, dB, dBm, Math(MX+B, %, 1/X)
- \* Digital I/O Provides Dual Mode(Standard Compare and User Definition Modes)
- \* Standard RS-232C and USB Device Interface(Support USB CDC and USB TMC Modes)

### 5 1/2 Dual Display Digital Multimeter

CE



GDM-8255A/8251A

- \* GDM-8255A : 199,999 Counts Display
- \* GDM-8251A : 120,000 Counts Display
- \* VFD Two Colors Display
- \* 0.012% DCV Accuracy
- \* True RMS (AC, AC+DC)
- \* 9 Major Measuring Functions and 10 Advanced Measurement Functions
- \* 2W/4W Resistance Measurement
- \* High Voltage 1000V and 10A Current Range
- \* Standard Interface : RS-232C, USB Device, Digital I/O
- \* Free PC Software (DMM-VIEWER), LabVIEW Driver
- \* Optional 16+2 Channels Scanner Card (GDM-SC1 for GDM-8255A only)

### 50000 Counts Dual Measurement Multimeter

CE

Patent No. ZL201320125978.1



GDM-8341/8342

- \* 50000 Counts Vacuum Fluorescent Display with Two Colors
- \* Dual Measurement
- \* Fast Measurement Rate Up to 40 readings/s for DCV
- \* 0.02% DCV Basic Accuracy
- \* Auto/Manual Ranging
- \* True RMS (AC, AC+DC)
- \* 11 Measurement Functions
- \* Max./Min., REL, MX+B, 1/X, Ref %, Compare, Hold, dB, dBm
- \* Standard USB Device for Communicating to PC
- \* Temperature Measurement (GDM-8342 only)
- \* USB Storage for Data Collection (GDM-8342 only)
- \* Optional GPIB (factory install for GDM-8342 only)

### Dual Display Digital Multimeter

CE



GDM-8245 (50000 Counts)

- \* 50000 Counts Display
- \* Multi-Function ACV, DCV, ACA, DCA, R, C, Hz, Max/Min, Continuity Beeper, Diode Test, REL, Hold, dBm
- \* Dual Display Indicate ACV and Hz, DCV(ACV)and dBm
- \* Manual or Auto Ranging
- \* 0.03% DCV Accuracy
- \* ACV Measuring Frequency Up to 50kHz
- \* AC True RMS or AC + DC True RMS

### Hand-Held Digital Multimeter

CE



GDM-452/357/350B(Manu Range)  
GDM-461/397/360/398(Auto/Manu Range)

- \* 22000 Counts Auto/Manual Ranging (GDM-461)
- \* 4 1/2 Digits 19999 Counts (GDM-452)
- \* 4000 Counts Auto/Manual Ranging (GDM-397/398)
- \* 6000 Counts Auto/Manual Ranging (GDM-360)
- \* 3 1/2 Digits 1999 Counts (GDM-357/350B)
- \* Continuity Beeper/Diode Test
- \* High Energy Fuse for 10A Range
- \* Data Hold
- \* True RMS (GDM-461/360)
- \* RS-232C (GDM-461/397/360)

### Precision LCR Meter

CE



LCR-8000G Series

- \* Wide Test Frequency 20Hz~10/5/1MHz
- \* 0.1% Basic Accuracy & 6 Digit Measurement Resolution
- \* Large LCD Display with Intuitive User Interface
- \* Full Measuring Functions with DUT V/I Monitor
- \* PASS/FAIL Function with Judgment Alarm
- \* DC Resistance Measurement
- \* Multi Step Mode
- \* Graph Mode
- \* Standard RS-232C/GPIB Interface
- \* Optional DC Bias box (frequency up to 2MHz max.)

### High Precision LCR Meter

CE



LCR-821 (12 Hz~200 kHz)  
LCR-819/829 (12 Hz~100 kHz)  
LCR-817/827 (12 Hz~10 kHz)  
LCR-816/826 (100 Hz~2 kHz)

- \* 240 x 128 dot Matrix LCD Display
- \* 0.05% ~ 0.1% Measurement Accuracy
- \* 100 Sets Memory for Save/Recall of Setup Settings
- \* R/Q,C/D,C/R,L/Q & Z/θ, L/R(LCR-821) Test Modes
- \* Absolute Value, ΔValue, and Δ% Measurement Display
- \* Test Condition and Test Result Shown on the Screen Simultaneously
- \* RS-232C (Including LCR-Viewer Software) (Standard : 821 ; Option : LCR-819/817/816)
- \* Handler Interface (LCR-829/827/826)

### Hand Held LCR Meter

CE



LCR-916/915/914 (100kHz/10kHz/1kHz)

- \* 20,000/2,000 Counts Dual Display
- \* Test Frequency:100/120Hz/1kHz/10kHz/100kHz Depend on Model
- \* Auto LCR Mode for DUT Measuring
- \* 0.2% Basic Accuracy
- \* Measurement Parameters : L, C, R(AC/DC), D, Q, ESR, θ
- \* Parallel/Series Testing Mode
- \* Low Battery Indication
- \* Sorting Mode for Quality Control
- \* Auto Power Off
- \* 2Wire or 5Wire Measurement Available
- \* Data Hold and Zero Mode Supported
- \* Max and Min Mode Supported(LCR-916)
- \* Data Collection or DC Power Operation(Optional for LCR-915)

### AC/DC/IR/GB Electrical Safety Tester

CE



#### GPT-9900 Series

- \* 500VA AC Test Capacity
- \* 240 x 64 Ice Blue Dot Matrix LCD
- \* Function Key for Quick Selecting
- \* Controllable Ramp-up Time
- \* Zero Crossing Turn-on Operation
- \* True RMS Current Measurement
- \* High Intensity Flash for Caution & Status Indication
- \* High Resolution : 1 $\mu$ A for Measuring Current, 2V for Setting Voltage
- \* PWM Switching Amplifier to Enhance the Power Efficiency and Reliable Testing
- \* Max. 100 Memory Block for Test Condition(Step) Setting. And Each Step Can be Named Individually

- \* Safety Interlock Function
- \* Manual/Auto Mode
- \* Interface : RS-232C, USB Device, Signal I/O and GPIB(Optional)
- \* Rear Output Available

### AC/DC/IR/GB Electrical Safety Tester

CE



#### GPT-9800 Series

- \* 200VA AC Test Capacity
- \* 240 x 64 Ice Blue Dot Matrix LCD
- \* Function Key for Quick Selecting
- \* Controllable Ramp-up Time
- \* Zero Crossing Turn-on Operation
- \* True RMS Current Measurement
- \* High Intensity Flash for Caution & Status Indication
- \* High Resolution : 1 $\mu$ A for Measuring Current, 2V for Setting Voltage
- \* PWM Switching Amplifier to Enhance the Power Efficiency and Reliable Testing
- \* Max. 100 Memory Block for Test Condition(Step) Setting. And Each Step Can be Named Individually

- \* Safety Interlock Function
- \* Manual/Auto Mode
- \* Interface : RS-232C, USB Device, Signal I/O and GPIB(Optional)
- \* Rear Output Available

### Multiplex Scanner Box

CE

Patent No.ZL201420282101.8



NEW

#### GSB-01/02

- \* Model : GSB-01 (8CH High Voltage Scanner Box), GSB-02 (6CH High Voltage and 2CH Ground Bond Scanner Box)
- \* Multi-channel Outputs for Withstanding Voltage, Insulation Resistance, Ground Bond Tests
- \* High-intensity LED for Channel, Status & Judgment Indications
- \* Front & Rear Input Connector Design is Suitable for the GPT-9800/9900/9900A Series
- \* A Maximum of 4 Scanner Boxes (32 CH) can be Connected to One GPT-9800/9900/9900A Series

### AC/DC Withstanding Voltage/Insulation Resistance Tester

CE



#### GPT-9600 Series

NEW

- \* 100VA AC Test Capacity
- \* 240 x 48 Ice Blue Dot Matrix LCD
- \* True RMS Current Measurement
- \* ARC Detection
- \* Zero Crossing Turn-on Operation
- \* PWM Switching Amplifier to Enhance the Power Efficiency and Reliable Testing
- \* Automatically Switching Input Source for World-wide Input Voltage
- \* Light Design and Easy to Operation

### Leakage Current Tester

CE



#### GLC-9000

- \* Touch Panel with Color LCD Display
- \* 9 Different Measuring Devices to Simulate the Resistance of a Human Body
- \* 8 Different Types of Leakage Current for General Electrical & Medical Equipment
- \* Various Leakage Current Measuring modes : DC/AC/AC+DC/AC Peak
- \* Upper & Lower PASS/FAIL Limits
- \* Meter Function with SELV/CONV Function
- \* 50 Preset Test Conditions Conform to the IEC 60990 ; 30 Memories for Customer Defined
- \* Standard Interfaces:RS-232C/GPIB/USB Host & Device/EXT I/O

### A.C. Power Meter



#### GPM-8212

- \* Simultaneous Display of W, A, V (PF or Hz)
- \* True RMS V, A, W
- \* Auto Calibration Via Computer
- \* Max. / Min. / Hold Function
- \* High Immunity to External Noise
- \* CT Ratio (1 ~ 9999) & PT Ratio (1 ~ 9999)

	No Interface	RS-232C	RS-485
GPM-8212	✓		
GPM-8212 (RS-232C)		✓	
GPM-8212 (RS-485)			✓

### D.C. Milliohm Meter

CE



#### GOM-802

- \* 30000 Counts Display
- \* High Accuracy 0.05%
- \* Hi/Lo Comparator and Limit Percent Setting
- \* Measurement of REL, Actual and % Value
- \* Continuous or Triggered Measurement Mode
- \* Temperature Compensation and Measurement
- \* Four-Terminal Measurement Technique
- \* Scan, Handler Interface (Standard)
- \* Option : RS-232C+GPIB Interface

### D.C. Milliohm Meter

CE



#### GOM-801H





- \* 3 1/2 Digits 0.5" LED Display
- \* Measures from 20m $\Omega$  ~ 20k $\Omega$  in 7 Ranges
- \* 1A High Test Current
- \* High Resolution 10  $\mu\Omega$
- \* Hi/Lo Comparator Indicator with Buzzer Alarm

### Automatic Distortion Meter



#### GAD-201G

- \* Automatic Level & Distortion Measurements
- \* Auto or Hold Function Can Be Selectable
- \* 0.1% ~ 100% in 7 Distortion Measuring Ranges
- \* 20Hz ~ 20kHz in 3 Continuous Ranges
- \* 400Hz, 1kHz, 10kHz 3 Spot Frequency
- \* 1mVrms ~ 300Vrms in 12 ACV Measuring Ranges

Intelligent Counter	Digital Frequency Counter	A.C. Millivolt Meter
 <p><b>GFC-8270H/8131H</b></p> <ul style="list-style-type: none"> <li>* GFC-8270H : 0.01Hz ~ 2.7GHz Frequency Range</li> <li>GFC-8131H : 0.01Hz ~ 1.3GHz Frequency Range</li> <li>* 10mV rms High Sensitivity</li> <li>* 100nHz Resolution for 1Hz</li> <li>* Frequency and Period Measurement</li> <li>* High Resolution at Both High and Low Frequency</li> <li>* Variable Trigger Level Control</li> </ul>	 <p><b>GFC-8010H</b></p> <ul style="list-style-type: none"> <li>* 1Hz ~ 120MHz Frequency Range</li> <li>* 8 Digit Display (0.3" LED)</li> <li>* 15mVrms High Sensitivity</li> <li>* 5PPM High Stability Time Base</li> <li>* Frequency and Period Measurement</li> <li>* Low Pass Filter Function</li> <li>* Over-Flow Indicator</li> </ul>	 <p><b>GVT-427B (2 CH)/417B (1 CH)</b></p> <ul style="list-style-type: none"> <li>* 300<math>\mu</math>V Full Scale Sensitivity</li> <li>* Measures Frequency From 10Hz ~ 1MHz</li> <li>* Measures From -70dB ~ +40dB in 12 Ranges</li> <li>* Dual Channel (GVT-427B)</li> </ul> <p>Note : GVT-427B Without  Approved</p>

### LCR Meter Accessories Introduction

<p><b>LCR-05</b> Patent:185538</p>  <p>Description : Test fixture for measuring axial and radial lead components Frequency : DC to 1MHz Max. Voltage : +/- 35V</p>	<p><b>LCR-06A</b></p>  <p>Description : Kelvin clip test lead Frequency : DC to 1MHz Max. Voltage : +/- 35V</p>	<p><b>LCR-07</b></p>  <p>Description : Test leads for conventional component measurement. Useful for high impedance measurement. Two-wire measurement applicable to low C or high R. Frequency : DC to 1MHz Max. Voltage : +/- 35V</p>
<p><b>LCR-08</b> Patent:188540</p>  <p>Description : SMD/chip tweezers Frequency : DC to 1MHz Max. Voltage : +/- 35V</p>	<p><b>LCR-09</b> Patent:186171</p>  <p>Description : SMD/chip test fixture Frequency : DC to 10MHz Max. Voltage : +/- 35V Applicable size : 0603 to 1812</p>	<p><b>LCR-12</b></p>  <p>Description : Kelvin clip test lead Frequency : DC to 10MHz Max. Voltage : +/- 35V Approx. 0.6m</p>
<p><b>LCR-13</b> Patent:186171</p>  <p>Description : SMD/chip test fixture Frequency : DC to 10MHz Max. Voltage : +/- 35V Applicable size : 0201 to 0805</p>	<p><b>DC BIAS BOX (Optional)</b></p>  <p>Description : External DC Bias box Frequency : DC to 2MHz Max. Voltage : +/- 200V</p>	<p><b>GTL-234 RS-232C Cable</b></p>  <p>For: APS-1102A, LCR-8000G</p>

This short form catalog introduces the major GW Instek product lines with a brief explanation of each product. For more information, please visit our website: <http://www.gwinstek.com>

DISTRIBUTOR :

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SF-2015GD1SF-2015-01-4000

Global Headquarters

**GOOD WILL INSTRUMENT CO., LTD.**

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan

T +886-2-2268-0389 F +886-2-2268-0639

E-mail: [marketing@goodwill.com.tw](mailto:marketing@goodwill.com.tw)

China Subsidiary

**GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.**

No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China

T +86-512-6661-7177 F +86-512-6661-7277

E-mail: [marketing@instek.com.cn](mailto:marketing@instek.com.cn)

Malaysia Subsidiary

**GOOD WILL INSTRUMENT (M) SDN. BHD.**

27, Persiaran Mahsuri 1/1, Sunway Tunas,

11900 Bayan Lepas, Penang, Malaysia

T +604-6309988 F +604-6309989

E-mail: [sales@goodwill.com.my](mailto:sales@goodwill.com.my)

Europe Subsidiary

**GOOD WILL INSTRUMENT EURO B.V.**

De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS

T +31 (0)40-2557790 F +31 (0)40-2541194

U.S.A. Subsidiary

**INSTEK AMERICA CORP.**

5198 Brooks Street Montclair, CA 91763, U.S.A.

T +1-909-399-3535 F +1-909-399-0819

E-mail: [sales@instekamerica.com](mailto:sales@instekamerica.com)

Japan Subsidiary

**TEXIO TECHNOLOGY CORPORATION.**

7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin

Yokohama, Kohoku-ku, Yokohama, Kanagawa,

222-0033 Japan

T +81-45-620-2305 F +81-45-534-7181

E-mail: [info@texio.co.jp](mailto:info@texio.co.jp)

Korea Subsidiary

**GOOD WILL INSTRUMENT KOREA CO., LTD.**

#1406, Ace Hightech-City B/D 1Dong,

Mullae-Dong 3Ga 55-20, Yeongduengpo-Gu, Seoul, Korea

T +82-2-3439-2205 F +82-2-3439-2207

E-mail: [gwinstek@gwinstek.co.kr](mailto:gwinstek@gwinstek.co.kr)

**GW INSTEK**

Simply Reliable

[www.gwinstek.com](http://www.gwinstek.com)