



Made to Measure.

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SHORTFORM

OSCILLOSCOPES

SPECTRUM ANALYZERS

SIGNAL SOURCES

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BASIC T & M INSTRUMENTS

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

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- Digital Storage Oscilloscope
- Real Time/Digital Storage Oscilloscope
- Analog Oscilloscope
- Logic Analyzer

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## SPECTRUM ANALYZERS

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- Audio Generator

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- Programmable D.C. Electronic Load
- Programmable Linear D.C. Power Supply
- Linear D.C. Power Supply
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- Switching D.C. Power Supply
- Programmable AC/DC Power Source
- A.C. Power Source

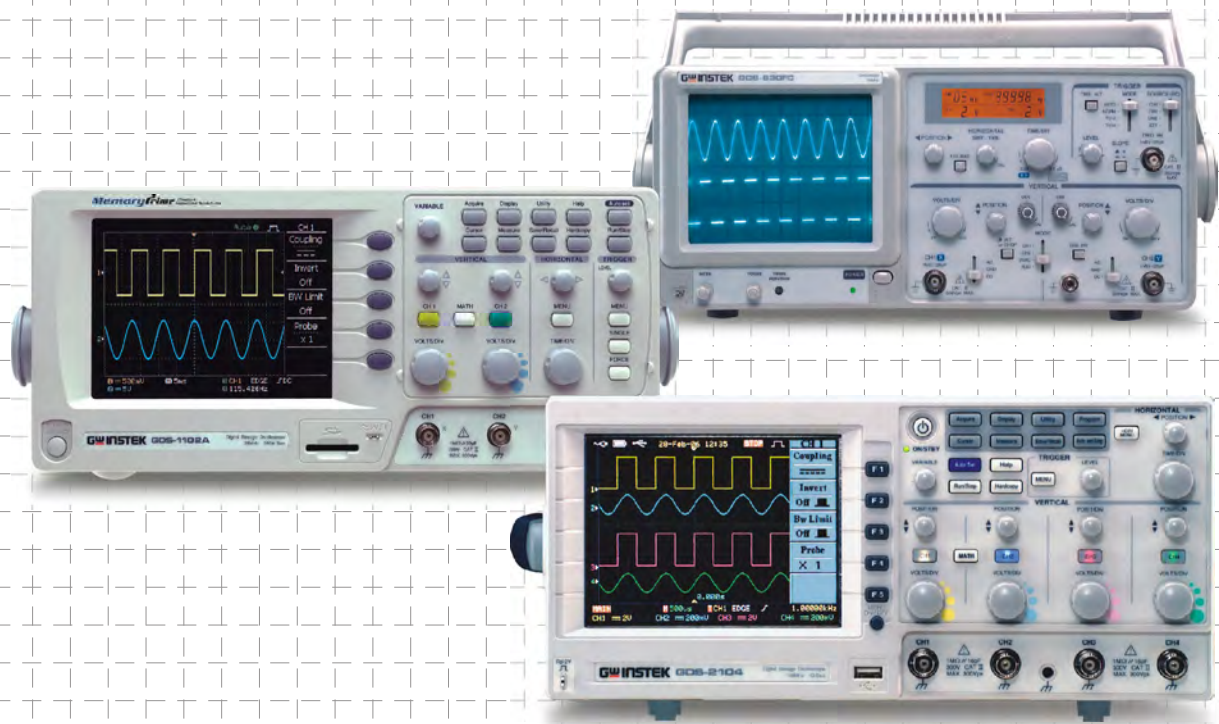
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## BASIC T & M INSTRUMENTS

- Digital Multimeter
- LCR Meter
- Electrical Safety Tester
- Milli-ohm Meter
- A.C. Power Meter
- A.C. Millivolt Meter
- Automatic Distortion Meter
- Digital Frequency Counter

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**GDS-1000A Series** 60/100/150MHz Digital Storage Oscilloscope  
**GDS-2000 Series** 60/100/200MHz Digital Storage Oscilloscope  
**GOS-630FC** 2-Channel Analog Oscilloscope

## OSCILLOSCOPES

GW Instek provides an entire series of oscilloscope solution, comprised 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 250MHz. In addition, 1GSa/s realtime sampling rate and 2M points memory depth can pick up and hold the complete signal in order to preserve the accuracy. PC interface such as USB, GPIB, RS-232C, SD Card Slot 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 200MHz, 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 preciseness of analog waveform and convenience of digital Data storage. You can stay in between the traditional and the modern age, between analog and digital domain, obtaining the Perfect Balance.

### Logic Analyzer GLA-Series

As technology has become even more digital-involved, there is increasing demand for Logic Analyzer to detect, analyze, and observe digital waveforms. GW Instek announces GLA-Series with maximum 32 channels, 200 MHz internal sampling rate, 1M bits of data memory and advanced trigger settings. It provides engineers and professionals with a mean to adequately handle today's digital system analysis.

## PRODUCTS

- Digital Storage Oscilloscope
- Real Time/Digital Storage Oscilloscope
- Analog Oscilloscope
- Logic Analyzer

### 60/100/150MHz Digital Storage Oscilloscope

CE

**MemoryPrime** 2MEGA MEMORY BUILT-IN



GDS-1152A(150MHz),  
GDS-1102A(100MHz),GDS-1062A(60MHz)

**NEW**

- \* 150/100/60 MHz Bandwidth, 2 Input Channels
- \* 1GSa/s Real-Time Sampling Rate Maximum,25GSa/s Equivalent-Time
- \* 2Mega Point Record Length
- \* 2mV~10V Vertical Scale
- \* 1ns~50s Horizontal Range
- \* Up to 27 Auto Measurements
- \* Versatile Math Function +, -, x, FFT, FFTrms
- \* 5.6" Color TFT LCD Display
- \* USB Interface & SD/SDHC Memory Card Supported
- \* Multi-Language Support on Operation Menu and On-Screen Help
- \* Limited Lifetime Warranty

### 25/40/60/100MHz Digital Storage Oscilloscope

CE



GDS-1102(100MHz),GDS-1062(60MHz),  
GDS-1042(40MHz), GDS-1022(25MHz)

- \* 2 Channels, 250MSa/s Realtime Sampling Rate, 25GSa/s ET Sampling Rate
- \* 4k Record Length Per Channel
- \* Peak Detect as Fast as 10ns
- \* Save/Recall of 15 Front Panel Settings & Waveforms
- \* 5.6" Color TFT LCD Display
- \* 19 Auto Measurements
- \* Arithmetic Operators - Add, Subtract, FFT
- \* USB Port for PC Connection
- \* SD Card Slot Supported
- \* Limited Lifetime Warranty

### 200MHz Digital Storage Oscilloscope

CE



GDS-2202/2204

- \* 200 MHz Bandwidth
- \* 2 or 4 Input Channels
- \* 1GSa/s Real-Time and 25GSa/s Equivalent-Time Sampling
- \* 25k Points Record Length Maximum
- \* 5.6" Color TFT LCD Display
- \* USB Host/Device: Support USB Printer and USB Flashdisk
- \* DC Power Operation(optional)
- \* Multi-Language Supported
- \* Limited Lifetime Warranty

### 100/60MHz Digital Storage Oscilloscope

CE



GDS-2102/2104 (100MHz)  
GDS-2062/2064 (60MHz)

- \* 100 MHz/60 MHz Bandwidth
- \* 2 or 4 Input Channels
- \* 1GSa/s Real-Time and 25GSa/s Equivalent-Time Sampling
- \* 25k Points Record Length Maximum
- \* 5.6" Color TFT LCD Display
- \* USB Host/Device: Support USB Printer and USB Flashdisk
- \* DC Power Operation(optional)
- \* Multi-Language Supported
- \* Limited Lifetime Warranty

### 150/250MHz Digital Storage Oscilloscope

CE



GDS-820C/840C (150/250MHz)  
GDS-820S/840S (150/250MHz)

- \* 150MHz/250MHz Bandwidth
- \* GDS-820C/840C : Color LCD Display
- \* GDS-820S/840S : Monochrome LCD Display
- \* 125k Long Memory and 12 Division Horizontal Display
- \* 25GSa/s Sampling Rate for Repetitive Waveforms
- \* Advanced Trigger : Pulse Width , TV Line, Event Delay And Time Delay \* FFT Function
- \* Go-No Go and Auto Setup Sequence
- \* Built-In Help Manual, Multi-Language and PC Software
- \* Interface : RS-232C,USB,Print Port, Go/NoGo Option
- \* Option : GPIB Interface

### 60/100MHz Digital Storage Oscilloscope

CE



GDS-806C/810C (60/100MHz)  
GDS-06S/810S (60/100MHz)

- \* 60MHz/100MHz Bandwidth
- \* GDS-806C/810C : Color LCD Display
- \* GDS-806S/810S : Monochrome LCD Display
- \* 125k Long Memory and 12 Division Horizontal Display
- \* 25GSa/s Sampling Rate for Repetitive Waveforms
- \* Advanced Trigger : Pulse Width , TV Line, Event Delay And Time Delay \* FFT Function
- \* Go/NoGo and Auto Setup Sequence
- \* Built-In Help Manual, Multi-Language and PC Software
- \* Interface : Standard-RS-232C
- \* Option : GPIB Interface,USB,Printer Port,Go/NoGo Output

### Handheld Digital Storage Oscilloscope & Multimeter

CE



GDS-122

- \* 20 MHz Bandwidth
- \* 100 MSa/s Realtime 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

### Digital Storage + Analog Oscilloscope

CE



GRS-6052A/6032A

- \* GRS-6052A:50MHz Bandwidth,2kW/CH Record Length
- \* GRS-6032A:30MHz Bandwidth,2kW/CH Record Length
- \* RTS : 100MSa/s , ETS : 500MSa/s
- \* Pre-trigger Function
- \* 10 Sets Memory for Front Panel and Waveform Trace Save/Recall
- \* ALT-MAG Function ( x5, x10, x20 )
- \* Vertical Mode Triggering
- \* Roll Mode to 100s/div
- \* Built-In RS-232C Interface




### Cursor Readout Analog Oscilloscope

CE






GOS-6200

- \* 200MHz Bandwidth , Dual Channel, Delayed Sweep
- \* Built-In 6 Digit Universal Counter
- \* Auto Set Function
- \* 10 Sets Memory for Front Panel Setting Save & Recall
- \* TV-Line Selection (NTSC, PAL, SECAM)
- \* Cursor Readout with 7 Measurements
- \* Trigger Signal Output
- \* Z-axis Modulation Input

Cursor Readout Analog Oscilloscope	Cursor Readout Analog Oscilloscope	Cursor Readout Analog Oscilloscope
<p>CE</p>  <p><b>GOS-6112</b></p>	<p>CE</p>  <p><b>GOS-6103/6103C</b></p>	<p>CE</p>  <p><b>GOS-6000 Series</b></p>
<ul style="list-style-type: none"> <li>* 100MHz Bandwidth, Dual Channel, Delayed Sweep</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>* GOS-6051/6050 : 50MHz Bandwidth</li> <li>* GOS-6031/6030 : 30MHz Bandwidth</li> <li>* Vertical : 1mV/div ~ 20V/div</li> <li>* ALT MAG Function (x 5, x 10, x 20)</li> <li>* Vertical Mode Triggering</li> <li>* TV Synchronization</li> <li>* Cursor Measurement (GOS-6051/6031)</li> <li>* Built-In 6 Digit Universal Counter(GOS-6051/6031)</li> <li>* 10 Sets Memory for Front Panel Setting Save &amp; Recall (GOS-6051/6031)</li> </ul>

Analog Oscilloscope	Analog Oscilloscope	Analog Oscilloscope
<p>CE</p>  <p><b>GOS-653G/652G</b></p>	<p>CE</p>  <p><b>GOS-635G/622G</b></p>	<p>CE</p>  <p><b>GOS-630FC</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>* Delayed Sweep (GOS-653G)</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>* 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>	<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>

Analog Oscilloscope	Oscilloscope+Function Generator	32/16 Channel 200MHz PC Based Logic Analyzer
<p>CE</p>  <p><b>GOS-620</b></p>	<p>CE</p>  <p><b>GOS-620FG</b></p>	<p>CE</p>  <p><b>GLA-1000 Series</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>	<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>	<ul style="list-style-type: none"> <li>* Time Analysis : Up to 200MHz Internal Sampling Rate</li> <li>* State Analysis : Up to 100MHz External Input Clock</li> <li>* Memory Depth : Up to 2Mbits/1Mbits(Half/Full Channels)</li> <li>* Advanced Trigger : Count, Page, Time Delay and Clock Event Delay</li> <li>* Data Compression : Up to 255 Times Data Capture</li> <li>* Enable Qualifier : High/Low Level Enable and Enable Delay Function</li> <li>* I<sup>2</sup>C , RS-232C Protocol Analyzer and Signal Statistics</li> <li>* File Export : Signal Data, Operation Setting and Display Image</li> <li>* USB Powered, Without External AC Power</li> </ul>



## 3GHz Spectrum Analyzer GSP-830

### SPECTRUM ANALYZERS

Ever since GW Instek has officially entered the RF field in 1999, our spectrum analyzer lineup has been expanding steadily - now they are in the 3GHz range. Currently, GSP-Series covers to 3GHz bandwidth range.

GSP-Series spectrum analyzer has numerous testing functions based on full synthesis and low noise design, including: Marker Measurement, Power Measurement, Limit Line, Dual Trace, and Trigger. Easy and fast measurement provide a true convenience While using the instrument.

GSP-Series are equipped with diverse and flexible functionalities, user-friendly panel operation, and complete set of option items. They fit broad range of applications in laboratories, measurements, and service fields. GSP-Series represent a remarkable achievement in GW Instek's design technology.

### PRODUCTS

- 3GHz Spectrum Analyzer
- 2.7GHz Spectrum Analyzer
- 1GHz Spectrum Analyzer
- RF & Spectrum Analyzer Training System

## 3 GHz Spectrum Analyzer

CE



### GSP-830

- \* Frequency Range : 9kHz ~ 3GHz
- \* Low Noise Floor -117dBm @1GHz, 3k 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-Windows with Separate Settings
- \* AC/DC/Battery (Option) Multi-Mode Power Operation
- \* USB/RS232/GPIB (Option) Interface & Direct VGA Output
- \* 6.4" TFT Color LCD, Resolution: 640x480
- \* Light Weight of 6kg Without Options
- \* Tracking Generator & Preamplifier (Option)

## 2.7 GHz Spectrum Analyzer

CE



### GSP-827

- \* Frequency Range : 9kHz ~ 2.7GHz
- \* Input Range : -100dBm ~ +20dBm
- \* Average Noise Floor : -100dBm
- \* Power Measurements : ACPR/OCBW/Channel Power
- \* Split Window : Simultaneous Measurements in Two Separate Frequency Spans
- \* 10 Markers : Delta Mode, Peak Search, Peak Track
- \* TG : 9kHz ~ 2.7GHz, -50dBm ~ 0dBm (Option)
- \* EMI Filters (Option)
- \* AC/DC/Battery Operation (Option)

## 1 GHz Spectrum Analyzer

CE



### GSP-810

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

## RF & Spectrum Analyzer Training System



### GRF-3300 Series

- \* Designed for Wireless Application Frequency Range
- \* Understanding the Applications and Measurements for Using Spectrum Analyzer of Communication Instruments
- \* Designed for Application of RF Transmitter and Receiver System
- \* Theory and Hand-on Experiments for Each Chapter Regarding Topics in the RF System
- \* Including 880MHz Digital PLL and 2.4GHz Microstrip Line Filters Circuits
- \* Training for the Voice Communication System
- \* Specific RF Circuit Characteristic & PCB Layout on Each Module
- \* Training System Covers 22 Modules, and Over 50 Experiments



**SFG-2000 Series** 4/7/10/20MHz DDS Function Generator  
**SFG-1000 Series** 3MHz DDS Function Generator

## SIGNAL SOURCES

A variety of signal generators, including linear technology with 1MHz ~ 150MHz bandwidth, and DDS technology with 3MHz ~ 30MHz, has been provided for applications, such as low frequency, IF, RF, etc. These generators are suited well for educational research, quality testing, and signal source in wireless communication system.

No matter where the demand comes from, such as product development, automated production line, or post-sales support, GW Instek signal generator will support you with the required functionality, reliability, and quality.

### PRODUCTS

- Programmable Function Generator
- DDS Function Generator
- Analog Function Generator
- FM/AM Signal Generator
- RF Generator
- Audio Generator



### DDS Function Generator

CE



**SFG-2104/2107/2110/2120**

- \* DDS Technology and FPGA Chip Design
- \* Frequency Range: 0.1Hz~4MHz/7MHz/10MHz/20MHz
- \* High Frequency Accuracy :  $\pm 20$ ppm
- \* High Frequency Stability :  $\pm 20$ ppm
- \* Frequency Resolution : 100mHz(1Hz for SFG-2120)
- \* Low Distortion Sine Wave : -55dBc, 0.1Hz~200kHz
- \* Built-In 6 Digits, 150MHz/High Resolution Counter
- \* INT/EXT AM/FM Modulation
- \* LIN/LOG Sweep Mode
- \* Front Panel Setting Save/Recall with 10 Groups

### DDS Function Generator

CE



**SFG-2004/2007/2010/2020**

- \* DDS Technology and FPGA Chip Design
- \* Frequency Range: 0.1Hz~4MHz/7MHz/10MHz/20MHz
- \* High Frequency Accuracy :  $\pm 20$ ppm
- \* High Frequency Stability :  $\pm 20$ ppm
- \* Frequency Resolution : 100mHz(1Hz for SFG-2020)
- \* Low Distortion Sine Wave : -55dBc, 0.1Hz~200kHz
- \* Front Panel Setting Save/Recall with 10 Groups of Setting Memories

### DDS Function Generator

CE



**SFG-1003/1013**

- \* DDS Technology and FPGA Design
- \* Frequency Range : 0.1Hz ~ 3MHz
- \* High Frequency Accuracy :  $\pm 20$ ppm
- \* High Frequency Stability :  $\pm 20$ ppm
- \* Max. Frequency Resolution : 100 mHz
- \* Low Distortion Sine Wave : -55dBc, 0.1Hz~200 kHz
- \* Voltage Display ( Only SFG-1013)

### Programmable Function Generator

CE



**GFG-3015**

- \* Frequency Range : 0.01Hz~15MHz
- \* 10mHz Frequency Resolution
- \* Dual Displays Indicate Frequency and Amplitude
- \* Built-In 6 Digit Counter With INT/EXT Function up to 150MHz/High Resolution
- \* Output Waveforms Sine, Square, Triangle, Ramp, Pulse, AM, FM, Sweep, Trigger and Gate or Burst
- \* VCF for 100:1 EXT Frequency Control
- \* INT/EXT AM/FM Modulation
- \* LIN/LOG Sweep Mode
- \* Standard Interface : RS-232C

### Function Generator

CE



**GFG-8255A/8250A**

- \* Frequency Range : 0.5Hz ~ 5MHz
- \* Waveforms : Sine, Triangle, Square, Ramp, TTL and CMOS Output
- \* Variable DC Offset Control
- \* Two-Step (-20dBx2) and Variable Attenuator
- \* Built-In 6 Digit Counter with INT/EXT Function up to 150MHz/High Resolution
- \* INT/EXT AM/FM Modulation (GFG-8255A)
- \* LIN/LOG Sweep Mode (GFG-8255A)

### Function Generator

CE



**GFG-8219A/8217A/8216A/8215A**

- \* Frequency Range : 0.3Hz ~ 3MHz
- \* Waveforms : Sine, Triangle, Square, Ramp, TTL and CMOS Output
- \* Variable DC Offset Control
- \* Two-Step (-20dB x 2) and Variable Attenuator
- \* Built-In 6 Digit Counter with INT/EXT Function up to 150MHz/High Resolution(Except GFG-8215A)
- \* INT/EXT AM/FM Modulation ( GFG-8219A)
- \* LIN/LOG Sweep Mode ( GFG-8219A/8217A)

### Function Generator

CE



**GFG-8015G**

- \* Frequency Range : 0.2Hz ~ 2MHz
- \* Waveforms : Sine, Triangle, Square, TTL Pulse
- \* 1000 : 1 Tuning Range
- \* Two-Step Attenuator Plus Variable Control
- \* Variable DC Offset Control
- \* Output Overload Protection

### Function Generator

CE



**GFG-8020H**

- \* Frequency Range : 0.2Hz ~ 2MHz
- \* Coarse and Fine Tuning
- \* Waveforms : Sine, Triangle, Square, TTL Pulse
- \* CMOS Output
- \* Built-In 4 Digit Counter (INT Only)
- \* Large 0.5" LED Display
- \* Variable DC Offset Control
- \* Output Overload Protection

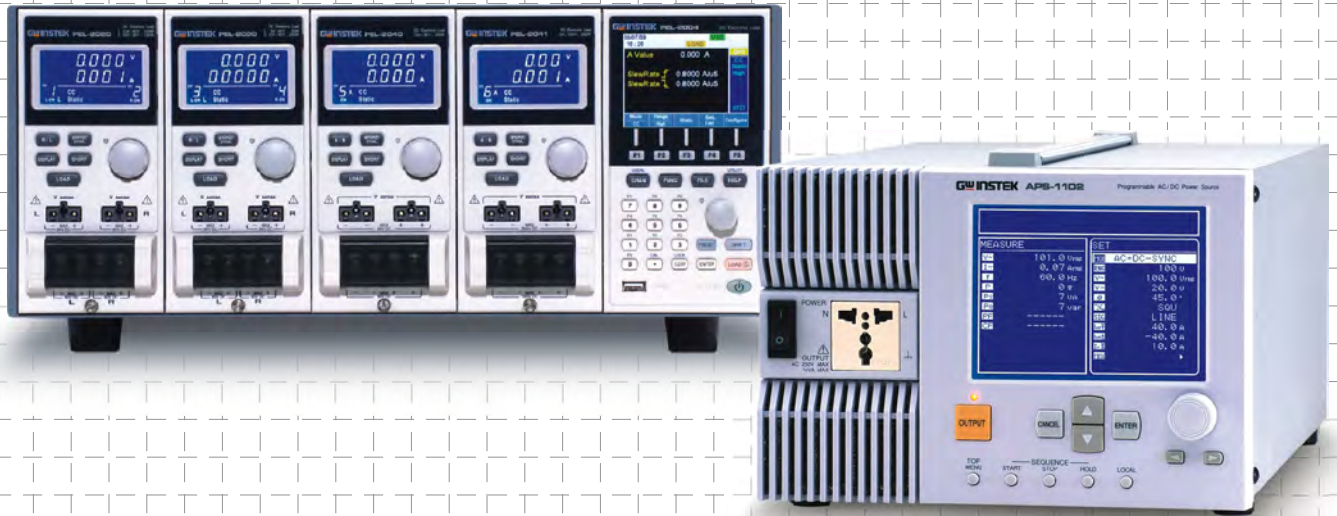
### Audio Generator

CE



**GAG-809/810**

- \* Frequency Range 10Hz ~ 1MHz
- \* 0.02% Low Sine wave Distortion (GAG-810 Only)
- \* 6 Steps Output Attenuator
- \* EXT SYNC Function



**Programmable AC/DC Power Source**  
**Programmable D.C. Electronic Load**

**APS-1102**  
**PEL-2000 Series**

## POWER SUPPLIES

GW Instek provides the most reliable and complete Instrumental Power Supply lineup, and you can find it easily in the electronic T&M industry. Considering different professional demands of function, performance, and price, GW Instek provides a complete product lineup: Linear or Switching, Programmable or Non-programmable, Single or Multiple Outputs, High Precision or Affordable Price, Dual-Range, as well as Wide Combinations of Voltage and Current.

GW Instek currently offers more than 100 power supply products to ensure to meet most of the diverse applications including Electronic Assembly Testing, Education, Component Testing, Wireless Product Testing, Burn-In, Battery-Power Product Testing, Automotive, Aerospace and so on.

### PRODUCTS

- Programmable D.C. Electronic Load
- Programmable Linear D.C. Power Supply
- Linear D.C. Power Supply
- Programmable Switching D.C. Power Supply
- Switching D.C. Power Supply
- Programmable AC/DC Power Source
- A.C. Power Source

**Programmable D.C. Electronic Load**



PEL-2000 Series

**NEW**

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

**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

**Programmable D.C. Power Supply**



PPT-1830/3615/PPE-3323

- \* Auto Tracking
- \* Auto Step Running with Timer Setting
- \* OVP and OCP Protection(PPT-1830/3615 Hardware; PPE-3323 Software)
- \* Auto Series and Parallel Operation(PPT-1830/3615)

Model	PPT-1830			PPT-3615			PPE-3323		
	CH1 CH2	CH3	CH3	CH1 CH2	CH3	CH1	CH2	CH3	
Voltage	0~18V	0~6V	0~6V	0~36V	0~6V	0~32V/0~32V	0~32V	3.3/5V FIXED	
Current	0~3A	0~5A	0~1.5A	0~3A	0~3A	0~3A/0~3A	3A	3A FIXED	
Resolution	10mV/1mA			10mV/1mA			10mV/1mA		
Memory	50			50			50		
Interface	GPIB			GPIB			RS-232		
Labview	✓			✓			N/A		

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



PSM-Series

- \* High Resolution: 1mV/1mA
- \* 0.01% Load/Line Regulation, 350µVrms Ripple
- \* Auto Step Running with timer Setting and 100 Sets Memory
- \* Safety Design:OVP,OCP & 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

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



GPC-6030D/3060D

- \* Triple Output
- \* Auto Tracking
- \* 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
- \* 3 1/2 Digits 0.5" LED Display

Model	Independent	Series	Parallel
GPC-6030D	0 ~ 60V x 2 0 ~ 3A x 2 5V/3A	120V 3A	60V 6A
GPC-3060D	0 ~ 30V x 2 0 ~ 6A x 2 5V/3A	60V 6A	30V 12A

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



GPD-3303S/3303D

- \* Digital Panel Control (Rotary Encoder Switch, Rubber Key With Indicator)
- \* User-Friendly Operation, Coarse/Fine Volume Control
- \* 4 Sets Save/Recall
- \* Key-Lock & Warning Buzzer \* Output ON/OFF
- \* Tracking Series and Parallel Mode
- \* Smart Cooling Fan Achieving Low Noise

Model	GPD-3303S			GPD-3303D		
	CH1	CH2	CH3	CH1	CH2	CH3
Voltage	30V	2.5V/3.3V/5V	30V	30V	2.5V/3.3V/5V	30V
Current	3A	3A	3A	3A	3A	3A
Display Resolution	1mV/1mA	-	100mV/10mA	-	-	-
Standard Interface	USB			USB		

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



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-4303			GPS-3303			GPS-2303	
	CH1 CH2	CH3	CH4	CH1 CH2	CH3	CH1 CH2	CH1 CH2	
Voltage	0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V	0 ~ 30V	5V Fixed	0 ~ 30V	0 ~ 30V	
Current	0 ~ 3A	1A Max.	1A Max.	0 ~ 3A	3A Max.	0 ~ 3A	0 ~ 3A	
Tracking Series Voltage	0 ~ 60V	-	-	0 ~ 60V	-	0 ~ 60V	0 ~ 60V	
Tracking Parallel Current	0 ~ 6A	-	-	0 ~ 6A	-	0 ~ 6A	0 ~ 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
- \* 3 1/2 Digits 0.5" LED Display
- \* 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-16550D	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-100H05D	0 ~ 1000 V	0 ~ 0.5 A

### Linear D.C. Power Supply

CE APPROVED: GPR-1820HD, GPR-3510HD, GPR-7550D, GPR-11H30D



**GPR-H Series**

- \* 0.01% High Regulation
- \* Constant Voltage and Constant Current Operation
- \* Internal Select for Continuous or Dynamic Load
- \* Low Ripple and Noise
- \* Overload and Reverse Polarity Protection
- \* 3 1/2 Digits 0.5" LED Display

Model	Output Volts	Output Amps
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

### Linear D.C. Power Supply

CE



**GPR-M Series**

- \* 0.01% High Regulation
- \* Constant Voltage and Constant Current Operation
- \* Internal Select for Continuous or Dynamic Load
- \* Low Ripple and Noise
- \* Overload and Reverse Polarity protection
- \* 3 1/2 Digits 0.5" LED Display

Model	Output Volts	Output Amps
GPR-1810HD	0 ~ 18 V	0 ~ 10 A
GPR-3060D	0 ~ 30 V	0 ~ 6 A
GPR-6030D	0 ~ 60 V	0 ~ 3 A

### 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

### Programmable Switching D.C. Power Supply

CE



**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

CE (Note: Unable to install RS-232C & GPIB Simultaneously)



**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
- \* Low Ripple and Noise
- \* Self-Test and Software Calibration
- \* Standard Interface : RS-232C
- \* Option : GPIB (IEEE-488.2)

Model	1036A	2018A	3610A	6006A	1070A	2035A	3620A	6012A	10100A	2050A	3630A	6018A
Voltage	10 V	20 V	36 V	60 V	10 V	20 V	36 V	60 V	10 V	20 V	36 V	60 V
Current	36 A	18 A	10 A	6 A	70 A	35 A	20 A	12 A	100 A	50 A	30 A	18 A

### 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)

### Switching D.C. Power Supply

CE



**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

### Programmable AC/DC Power Source


CE



**APS-1102**

- \* Output Modes : AC and AC+DC Combined with any of the Four Signal Sources
- \* Signal Sources : Internal (INT), External (EXT), (Internal+External(ADD) and Synchronization (SYNC)
- \* Arbitrary Waveform Power Output
- \* Measurement Functions : Voltage, Current, Power, Frequency, Power Factor, CF, and Harmonic Current
- \* Sequence Function Allows Programming of Output Patterns
- \* 30 Sets of SAVE/RECALL Memories
- \* USB TMC as Standard for Remote Control
- \* Output Capacity: 750VA(for AC100V Input)/1KVA(for AC200V Input)

### 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.
		8.4 Arms Max.	4.2 Arms Max.



**Dual Display Digital Multimeter  
1/5/10MHz High Precision LCR Meter  
AC/DC/IR/GB Electrical Safety Tester**

**GDM-8200A Series  
LCR-8000G Series  
GPI-700A Series**

## BASIC T & M INSTRUMENTS

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

In the Digital Meter group, we provide 5 1/2 digit, 4 1/2 digit, as well as 3 1/2 digit benchtop multimeters, 4 1/2 digit and lower hand-held multimeters as well as a range of milliohm meters and AC power meter.

Our LCR Meter range includes two main series, the LCR-8000G & LCR-800 series. Depending on the model, these series feature frequencies of 2kHz to 10MHz, and accuracies as high as 0.05% ~ 0.1%.

For Safety Testing, the GPI/ GPT Series Safety Testers provide you with a safe and quick measurement tool for AC/DC Withstanding Voltage tests, Insulation Resistance tests, and Continuity Checks.

In order to provide you with a complete "One Stop Shopping" solution, We also have our range of Specific Application T&M Instruments: 120MHz - 2.7GHz high precision frequency counters, automatic distortion meters, and A.C. millivolt meters.

### PRODUCTS

- Digital Multimeter
- LCR Meter
- Electrical Safety Tester
- Milli-ohm Meter
- A.C. Power Meter
- A.C. Millivolt Meter
- Automatic Distortion Meter
- Digital Frequency Counter

### 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)

### Dual Display Digital Multimeter

CE



GDM-8246/8245

- \* 50000 Counts Display
- \* Multi-Function ACV,DCV,ACA,DCA,R,C,HZ,Continuity Beeper,Diode Test,Max/Min,REL,Auto Hold,dBm,Compare
- \* Dual Display Indicate ACV and Hz, DCV(ACV) and dBm or DCV and ACV Ripple
- \* AC True RMS or AC + DC True RMS
- \* 0.02% DCV Accuracy(GDM-8246)
- \* ACV Measuring Frequency Up to 100kHz(GDM-8246)
- \* 20A Current Range With High Energy Fuse Protection (GDM-8246)
- \* Interface : RS-232C(Standard),GPIB Interface(OPTION) (GDM-8246)

### High Precision LCR Meter

CE



LCR-8000G Series

NEW

- \* Wide Test Frequency 20Hz~1/5/10MHz
- \* 0.1% Basic Accuracy & 6 Digits 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

### High Precision LCR Meter

CE



LCR-821

- \* Test Frequency: 12Hz ~ 200kHz, Continuously Variable Frequencies
- \* 0.05% Measurement Accuracy
- \* 100 Sets Memory for Save/Recall of Setup Settings
- \* R/Q, C/D, C/R, L/Q, Z/θ, L/R Test Modes
- \* Absolute Value, ΔValue, and Δ% Measurement Display
- \* 240 x 128 dot Matrix LCD Display
- \* RS-232C (Including LCR-Viewer Software) (Standard)

### High Precision LCR Meter

CE



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

- \* 0.05%~0.1% Measurement Accuracy
- \* 100 Sets Memory for Save/Recall of Setup State
- \* R/Q, C/D, C/R, L/Q Test Modes
- \* Absolute Value, ΔValue, and Δ% Measurement Display
- \* Test Condition and Test Result Shown on the Screen Simultaneously
- \* Handler Interface (LCR-829/827/826)
- \* Option:RS-232C(Including LCR Viewer Software) (LCR-819/817/816 only)

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

CE



GPI-745A  
GPT-705A/715A & GPI-725A/735A

- \* 200VA AC Test Capacity
- \* AC/DC Withstanding Voltage Test & Insulation Resistance Test
- \* Ground Bond Test (only GPI-745A)
- \* Arc Detection
- \* Zero Crossing Turn-On Operation Switch
- \* Controllable Ramp-Up Time
- \* True RMS Cut-Off Current Measurement
- \* 9 pins Remote Control for Start, Reset and Test Result Output
- \* Automatic FAIL Indicator of Alarm Lamp and Buzzer
- \* Scanner Box for Automatic Test (Option)
- \* Interface : RS-232C(Standard), GPIB(OPTION)

### AC/DC/IR Electrical Safety Tester

CE



GPT-805/815 & GPI-825/826

- \* 500VA AC Test Capacity (GPT-805/815,GPI-825)
- \* True RMS Current Readback
- \* Arc Detection
- \* Zero Turn-On Operating Switch(GPT-805,GPT-815,GPI-825)
- \* 3 Ranges of Adjustable Cut Off Current
- \* Digital Display for Voltage, Current and Timer
- \* 9 Pin Remote Control for START, RESET

	OUTPUT	AC	DC	IR
GPT-805	500VA	✓		
GPT-815	500VA	✓	✓	
GPI-825	500VA	✓		✓
GPI-826	100VA	✓		✓

### D.C. Milli-Ohm 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. Milli-Ohm Meter

CE



GOM-801H

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

### Digital IC Tester

CE



**GUT-6000A**

- \* Loop Test
- \* Auto-Search
- \* Self-Diagnosis
- \* Over-Load Protection
- \* Measures 1800 Kinds Device
- \* 54/74 Series TTL
- \* 4000 and 4500 Series CMOS
- \* Test Socket : 28-Pin

### 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
<b>GPM-8212</b>	✓		
<b>GPM-8212 (RS-232C)</b>		✓	
<b>GPM-8212 (RS-485)</b>			✓

### Mini Clamp Meter

CE



**GCM-302/303**

- \* Auto Range
- \* Auto Power Off
- \* Max Hold
- \* True RMS Measurement (GCM-303)
- \* 600A/600V Max Input
- \* Mini Size
- \* High Accuracy
- \* MAX Clamp Size :  $\varnothing$ 30mm

### 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

### A.C. Millivolt Meter

CE



**GVT-427B (2 CH)/417B (1 CH)**

- \* 300  $\mu$ V Full Scale Sensitivity
- \* Measures Frequency From 10Hz ~ 1MHz
- \* Measures From -70dB ~ +40dB in 12 Ranges
- \* Dual Channel (GVT-427B)

NOTE : GVT-427B Without CE Approved

### Intelligent Counter



**GFC-8270H/8131H**

- \* GFC-8270H : 0.01Hz ~ 2.7GHz Frequency Range
- \* GFC-8131H : 0.01Hz ~ 1.3GHz Frequency Range
- \* 10mV rms High Sensitivity
- \* 100nHz Resolution for 1Hz
- \* Frequency and Period Measurement
- \* High Resolution at Both High and Low Frequency
- \* Variable Trigger Level Control

### Digital Frequency Counter



**GFC-8010H**

- \* 10Hz ~ 120MHz Frequency Range
- \* 8 Digit Display (0.3" LED)
- \* 15mVrms High Sensitivity
- \* 5PPM High Stability Time Base
- \* Frequency and Period Measurement
- \* Low Pass Filter Function
- \* Over-Flow Indicator

### Hand-Held Digital Multimeter

CE



**GDM-350A**

**GDM-451/356**

- \* GDM-451 : 4 1/2 Digits (19999 counts)
- \* GDM-350A/356 : 3 1/2 Digits (1999 counts)
- \* Manual Ranging
- \* Continuity/Diode Test
- \* Data Hold (GDM-451)
- \* Temperature Measurement
- \* Capacitance, Frequency Measurement

### Hand-Held Digital Multimeter

CE



**GDM-396/394**

- \* 3 3/4 Digits (3999 Counts)
- \* Auto/Manual Ranging
- \* High Energy Fused for 10A Range
- \* Capacitance, Frequency Measurement
- \* Continuity Beeper/Diode Test
- \* Data Hold/Relative Mode
- \* GDM-396 : True RMS/RS-232C

This short form represents the major of the GW Instek product line with a brief explanation of the individual products. For more detailed information, please visit our web-site. <http://www.instek.com>

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