



Simply Reliable

2025

Good Will Instrument Co., Ltd.

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- Data Acquisition System
- Digital Power Meter
- D.C. Milli-ohm Meter
- Battery Meter
- Automatic Distortion Meter
- Intelligent Counter





GDS-3000A Series
MPO-2000 Series
GDS-1000B Series

1 GHz Digital Storage Oscilloscope
200 MHz/100 MHz Multi-function Programmable Oscilloscope
200 MHz/100 MHz Digital Storage Oscilloscope

OSCILLOSCOPES

The frequency bandwidth range from 100 MHz to the high-class 1 GHz. In addition, up to 5 GSa/s realtime sampling rate and 200 Mega points memory depth can pick up and hold the complete signal in order to preserve the accuracy. PC interfaces such as USB, LAN, GPIB, and RS-232 are integrated to the panel to satisfy data transmit/save needs. GDS-3000A digital storage oscilloscopes have 1 GHz models with two-channel, four-channel and 16-channel logic analyzer options. The series features the memory length of each channel up to 200 Mpts; the sampling rate of 5 GSa/s half channels and 2.5 GSa/s on all channels. GDS-3000A provides a rich measurement items for switch mode power supply testing. The provided power supply test items include AC input analysis items: Power Quality, Harmonics, Inrush Current and other; DC output analysis required test items: Ripple/Noise, Transient Response Analysis, Turn On/OFF, Efficiency; Control Loop response (Bode) and PSRR(Power Supply Rejection Ratio); Complete switching component analysis items: Modulation, Switching loss, SOA (Safe Operation Area) and Magnetics analysis: B-H curve.

The MD0-2000A series is multi-functional mixed domain oscilloscope. While entering the spectrum mode, MD0-2000A Series will display a full screen of frequency domain. Users can input Center frequency, Span, Start frequency, and Stop frequency based upon test requirements so as to rapidly and intuitively observe required frequency range that allows users to experience the user interface of a real spectrum analyzer.

MD0-2000AG and MD0-2000E also provide frequency response analysis function, it allows users to obtain DUT's FRA characteristic curve plot (Bode plot).

MP0-2000 is the only product that has a built-in Python GUI library. Users can build their own test systems at a lower cost. A variety of executable Python APPs are built-in. An all-in-one instrument with affordable pricing is ideal for test and measurement automation teaching courses; small-scale automated test of production lines, component tolerance testing for quality assurance, and diversified test applications. It is hoped that the launch of MP0-2000 can solve users' product test needs for repeatability and diversity, and can improve users' demand for simple and repetitive work efficiency and single-unit program control or the requirement of uploading test results to the cloud.

PRODUCTS

- Digital Storage Oscilloscope
- Multi-function Programmable Oscilloscope
- Mixed-signal Oscilloscope
- Mixed-domain Oscilloscope
- Oscilloscope Education and Training Kit

1 GHz Digital Storage Oscilloscope

CE



GDS-3104A

NEW

- * 5 GSa/s Real-time Sampling Rate, 4 Input Channels
- * Per Channel 200 Mpts Memory Depth
- * 200,000 wfm/s of Waveform Update Rate
- * 10.2 inch 800 x 480 TFT LCD Display
- * Built-in 13 Sets of Power Analysis Measurements
- * 490,000 Segments of Segmented Memory and the Waveform Search Function to Optimize the Efficiency of Record Length
- * I²C/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Dual Channel Spectrum Analyzer (DC to 2.5 GHz) with Spectrogram
- * Dual Channel 25 MHz Arbitrary Waveform Generator
- * Optional 16 Digital Channels with a Logic Analyzer(MSO)

1 GHz Digital Storage Oscilloscope

CE



GDS-3102A

NEW

- * 5 GSa/s Real-time Sampling Rate, 2 Input Channels
- * Per Channel 200 Mpts Memory Depth
- * 200,000 wfm/s of Waveform Update Rate
- * 10.2 inch 800 x 480 TFT LCD Display
- * Built-in 13 Sets of Power Analysis Measurements
- * 490,000 Segments of Segmented Memory and the Waveform Search Function to Optimize the Efficiency of Record Length
- * I²C/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Dual Channel Spectrum Analyzer (DC to 2.5 GHz) with Spectrogram
- * Dual Channel 25 MHz Arbitrary Waveform Generator
- * Optional 16 Digital Channels with a Logic Analyzer(MSO)

500 MHz Digital Storage Oscilloscope

CE



GDS-3504

Patent No.: ZL201220307783.4
ZL20121021617.9

- * 5GSa/s Real-time Sampling Rate and 100 GSa/s Equivalent Time Sampling Rate, 4 Input Channels
- * 25 k 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: 50 Ω /75 Ω /1 M Ω
- * Optional Power Analysis Software for Power Source Measurement and Analysis
- * Optional Serial Bus Analysis Software for Trigger & Decode of I²C, SPI and UART Interfaces

500 MHz Digital Storage Oscilloscope

CE



GDS-3502

Patent No.: ZL201220307783.4
ZL20121021617.9

- * 5 GSa/s Real-time Sampling Rate and 100 GSa/s Equivalent Time Sampling Rate, 2 Input Channels
- * 25 k 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: 50 Ω /75 Ω /1 M Ω
- * Optional Power Analysis Software for Power Source Measurement and Analysis
- * Optional Serial Bus Analysis Software for Trigger & Decode of I²C, SPI and UART Interfaces

200 MHz Multi-function Programmable Oscilloscope

CE



MPO-2204P/2202P

- * MPO-2000P:200MHz; 4 CH/2 CH
- * Allow to Use Python Scripts to Control for Automation Purpose
- * Dual Channel Spectrum Analyzer With Spectrogram
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Function
- * MPO-2000P: CAN FD, USB 2.0(Full Speed), Flexray, USB PD, I²S Digital Decoding
- * Data Log Function is Able to Track Signal Changes up to 1000 Hours
- * Network Storage Function
- * Equips With a Spectrum Analyzer; a Dual Channel 25 MHz AWG; DMM and Power Supply
- * Power Supply: Dual Channel Output, 1 V to 20 V

100 MHz Multi-function Programmable Oscilloscope

CE



MPO-2104B/2102B

- * MPO-2000B:100 MHz; 4 CH/2 CH
- * Allow to Use Python Scripts to Control for Automation Purpose
- * Dual Channel Spectrum Analyzer With Spectrogram
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Function
- * MPO-2000B: CAN FD, USB 2.0 (Full Speed) Digital Decoding
- * Data Log Function is Able to Track Signal Changes up to 1000 Hours
- * Network Storage Function
- * Equips With a Spectrum Analyzer; a Dual Channel 25 MHz AWG; DMM and Power Supply
- * Power Supply: Dual Channel Output, 1 V to 20 V

300/200/100 MHz Digital Storage Oscilloscope

CE



GDS-2304A/2204A/2104A

- * 2 GSa/s Real-time Sampling Rate and 100 GSa/s Equivalent Time Sampling Rate, 4 Input Channels
- * 2 MegaPoints Record Length
- * Fastest 80,000 wfm/s of Waveform Update Rate
- * Segmented Memory Acquisition and Waveform Search Functions
- * Standard Model Provides I²C, UART, SPI, CAN/LIN Serial Bus Trigger and Decoding Functionalities
- * Optional 8 or 16 Digital Channel with Logic Analyzer(MSO)
- * Optional 5 MHz Function Generator
- * Upgradable, Advanced Logic, Datalog, DVM and H-expansion Functionalities

200/100 MHz Mixed-signal Oscilloscope

CE



MSO-2204EA/2104EA

- * Maximum Real Time Sample Rate:1 GSa/s,4 Input Channels
- * MSO-2000E Equips with a 16 Channel Logic Analyzer
- * MSO-2000EA Equips with a 16 Channel Logic Analyzer and a Dual Channel 25 MHz Arbitrary Waveform Generator
- * Free Frequency Response Analyzer Software for MSO-2000EA
- * Maximum 10 M Memory Depth and VPO Waveform Display Technology
- * Waveform Update Rate up to 120,000 wfm/s
- * 8" WVGA TFT LCD
- * Maximum 1M FFT Provides Higher Frequency Domain Resolution Measurements
- * High Pass, Low Pass and Band Pass Filter Functions
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Mask Test Function

200/100 MHz Mixed-signal Oscilloscope

CE



MSO-2202EA/2102EA

- * Maximum Real Time Sample Rate:1 GSa/s,2 Input Channels
- * MSO-2000E Equips with a 16 Channel Logic Analyzer
- * MSO-2000EA Equips with a 16 Channel Logic Analyzer and a Dual Channel 25 MHz Arbitrary Waveform Generator
- * Free Frequency Response Analyzer Software for MSO-2000EA
- * Maximum 10 M Memory Depth and VPO Waveform Display Technology
- * Waveform Update Rate up to 120,000 wfm/s
- * 8" WVGA TFT LCD
- * Maximum 1 M FFT Provides Higher Frequency Domain Resolution Measurements
- * High Pass, Low Pass and Band Pass Filter Functions
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Mask Test Function

300/200/100 MHz Mixed-Domain Oscilloscope

CE



MDO-2302A(G)/2202A(G)/2102A(G)

- * 300/200/100 MHz Bandwidth Selections: 2 Channels
- * Maximum Real Time Sampling Rate: 2 GSa/s
- * MDO-2000A Equips with a Spectrum Analyzer; MDO-2000AG Equips with a Spectrum Analyzer, a Dual Channel 25 MHz AWG
- * Per Channel 20M Memory Depth and VPO Waveform Display Technology
- * Waveform Update Rate up to 120,000 wfm/s & 8" WVGA TFT LCD
- * MDO-2000AG Provides Frequency Response Analysis Function
- * Maximum 1 M FFT Provides Higher Frequency Domain Resolution Measurements
- * High Pass, Low Pass and Band Pass Filter Functions
- * 29,000 Segmented Memory Sections and Waveform Search Function
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Data Log Function is able to Track Signal Changes up to 1000 Hours
- * Mask Test Function & Network Storage Function

200/100/70 MHz Mixed-domain Oscilloscope

CE



MDO-2204E/2104E

- * Maximum Real Time Sample Rate: 1 GSa/s, 4 Input Channels
- * MDO-2000EG Equips with a Spectrum Analyzer and a Dual Channel 25 MHz AWG
- * MDO-2000EX Equips with a Spectrum Analyzer; a Dual Channel 25 MHz AWG; DMM and Power Supply
- * Per Channel 10M Memory Depth and VPO Waveform Display Technology
- * Waveform Update Rate up to 120,000 wfm/s & 8" WVGA TFT LCD
- * Free Frequency Response Analyzer Software
- * Maximum 1 M FFT Provides Higher Frequency Domain Resolution Measurements
- * High Pass, Low Pass and Band Pass Filter Functions
- * 29,000 Segmented Memory Sections and Waveform Search Functions
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Data Log Function is able to Track Signal Changes up to 1000 Hours
- * Mask Test Function & Network Storage Function

200/100/70 MHz Mixed-domain Oscilloscope

CE



MDO-2202E/2102E

- * Maximum Real Time Sample Rate: 1 GSa/s, 2 Input Channels
- * MDO-2000EG Equips with a Spectrum Analyzer and a Dual Channel 25 MHz AWG
- * MDO-2000EX Equips with a Spectrum Analyzer; a Dual Channel 25 MHz AWG; DMM and Power Supply
- * Per Channel 10M Memory Depth and VPO Waveform Display Technology
- * Waveform Update Rate up to 120,000 wfm/s & 8" WVGA TFT LCD
- * Free Frequency Response Analyzer Software
- * Maximum 1 M FFT Provides Higher Frequency Domain Resolution Measurements
- * High Pass, Low Pass and Band Pass Filter Functions
- * 29,000 Segmented Memory Sections and Waveform Search Functions
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Data Log Function is able to Track Signal Changes up to 1000 Hours
- * Mask Test Function & Network Storage Function

200/100/70 MHz Digital Storage Oscilloscope

CE



GDS-2204E/2104E

- * Sampling Rate : Max. 1 GSa/s, 4 Input Channels
- * 10 M/ch 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
- * I²C/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



GDS-2202E/2102E

- * 200/100 MHz Bandwidth, 2 Input Channels
- * Sampling Rate : Per Channel 1GSa/s(2 ch Model)
- * 10M/ch Memory Depth and VPO Waveform Display Technology
- * Waveform Update Rate of 120,000 wfm/s
- * 8" 800 x 480 TFT LCD Display
- * Max. 1 M pts of FFT to Get Higher Resolution in Frequency Domain
- * Digital Filter Function
- * Segmented Memory and Waveform Search Functions
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Function
- * Data Log Function for Waveform Observation in Long Periods of Time

100/70/50 MHz Digital Storage Oscilloscope

CE



GDS-1104B

- * 100 MHz Bandwidth Selections, 4 Input Channels
- * 1GSa/s Maximum Sampling Rate
- * 10 M Maximum Memory Depth For Each Channel
- * 7" 800 x 480 WVGA LCD Display
- * 256 Color Gradient Display Function to Strengthen Waveform Performance
- * 1 Mpts FFT Frequency Domain Signal Display
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Zero Key Function For Horizontal Time, Vertical Voltage and Triggering
- * Compact and Innovative Exterior Design

200/100/70 MHz Digital Storage Oscilloscope

CE



GDS-1202B/1102B

- * 200 MHz/100 MHz Bandwidth Selections, 2 Input Channels
- * 1 GSa/s Maximum Sampling Rate
- * 10 M Maximum Memory Depth For Each Channel
- * 7" 800 x 480 WVGA LCD Display
- * 256 Color Gradient Display Function to Strengthen Waveform Performance
- * 1Mpts FFT Frequency Domain Signal Display
- * I²C/SPI/UART/CAN/LIN Serial Bus Trigger and Decoding Functions
- * Zero Key Function For Horizontal Time, Vertical Voltage and Triggering
- * Compact and Innovative Exterior Design

100 MHz Digital Storage Oscilloscope

CE



GDS-912/912G

- * 100 MHz Bandwidth, 2 Input Channels
- * 1 GSa/s Real-time Sampling Rate Maximum
- * Standard 25 MHz Arbitrary Function Generator for GDS-912G
- * 20 Mpts Memory Depth per Channel
- * Support 30 Automatic Waveform Measurements
- * 6 digit High-precision Frequency Counter
- * 2048 pts FFT Frequency Domain Signal Display
- * 7" 800 x 480 TFT LCD Display

Oscilloscope Education and Training Kit

CE



GDB-03

The GDB-03 training kit allows you to learn both the basic and the advanced functions of the GDS-3000 Series, MSO-2000/GDS-2000A Series and GDS-1000B Series Digital Storage Oscilloscope (DSO). Following the training procedures of this training kit, you will quickly understand the basic operations of a DSO, and the unique features, which represents a typical hi-tech DSO today.

The training kit is a signal generator board capable of producing waveforms, which contain various real-life scenarios you might encounter. With the GDB-03 training kit and the included curriculums, you are able to acquire adequate knowledge in using a DSO with advanced features.

300 kHz/200 A AC/DC Current Probe

GCP-300

Probe Bandwidth	DC to 300 kHz
Rise Time	1.17 μ s (Typ.)
Maximum Continuous Input Range	200 A (10 mV/A) 20 A (100 mV/A)
Maximum Peak Current Value	DC : 200 A AC : 140 Arms
Output Voltage Rate	100 mV/A ; 10 mV/A
DC Amplitude Accuracy	$\pm 3\%$ ± 50 mA at 100 mV/A (50 mA to 20 A peak range) $\pm 4\%$ ± 50 mA at 10 mV/A (500 mA to 80 A peak range) $\pm 15\%$ max at 10 mV/A (80 A peak to 200 A peak range)
Maximum Rated Voltage	CAT III 300 V / CAT II 600 V

500 kHz/150 A AC/DC Current Probe

GCP-500

Probe Bandwidth	DC to 500 kHz
Rise Time	0.7 μ s (Typ.)
Maximum Continuous Input Range	150 A (20 mV/A) 15 A (200 mV/A)
Maximum Peak Current Value	DC : 150 A AC : 100 Arms
Output Voltage Rate	200 mV/A ; 20 mV/A
DC Amplitude Accuracy	$\pm 3\%$ ± 30 mA at 200 mV/A (30 mA to 15 A peak range) $\pm 4\%$ ± 300 mA at 20 mV/A (100 mA to 80 A peak range) $\pm 15\%$ max at 20 mV/A (80 A peak to 150 A peak range)
Maximum Rated Voltage	CAT III 600 V

1 MHz/70 A AC/DC Current Probe

GCP-1000

Probe Bandwidth	DC to 1 MHz
Rise Time	0.35 μ s (Typ.)
Maximum Continuous Input Range	7 A (50 mV/A) 70 A (500 mV/A)
Maximum Peak Current Value	DC : 70 A AC : 50 Arms
Output Voltage Rate	500 mV/A ; 50 mV/A
DC Amplitude Accuracy	$\pm 3\%$ ± 20 mA at 500 mV/A (20 mA to 7 A peak range) $\pm 4\%$ ± 200 mA at 50 mV/A (200 mA to 50 A peak range) $\pm 15\%$ max at 50 mV/A (50 A peak to 70 A peak range)
Maximum Rated Voltage	CAT III 600 V

High-voltage Differential Probe

GDP-025

Probe Bandwidth	DC to 25 MHz ; DC to 15 MHz
Attenuation	x20, x50, x200
Accuracy	$\pm 2\%$
Voltage Input Range (DC+AC peak to peak)	≤ 140 Vp-p for x 20 ≤ 350 Vp-p for x 50 ≤ 1400 Vp-p for x 200

High-voltage Differential Probe

GDP-050 / GDP-100

Probe Bandwidth	DC to 50 MHz / 100 MHz
Attenuation	x100, x200, x500, x1000
Accuracy	$\pm 2\%$
Voltage Input Range (DC+AC peak to peak)	≤ 700 Vp-p for x 100 ≤ 1400 Vp-p for x 200 ≤ 3500 Vp-p for x 500 ≤ 7000 Vp-p for x 1000

Power Supply

GCP-206P (for GCP-530/1030)

Compatible Current Probe	GCP-530 & GCP-1030
Number of Power Supply Connectors	2
Output Voltage	± 12 V ± 0.5 V
Rated Output Current	± 600 mA
Rated Supply Voltage (50/60Hz)	110 V / 120 V, 220 V / 240 V AC $\pm 10\%$
Maximum Rated Power	20 VA
Dimensions & Weight	73(W) x 110(H) x 186(D) mm ; Approx. 1.1 kg
Accessories	Power cord, fuse

Current Probe

GCP-530

Probe Bandwidth	DC to 50 MHz
Rise Time	7 ns or less
Maximum Continuous Input Range	30 Arms
Maximum Peak Current Value	50 A peak
Output Voltage Rate	0.1 V/A
Noise	2.5 mArms or less
Rate Supply Voltage	± 12 V ± 0.5 V
Maximum Rated Power	5.6 VA
Maximum Rated Voltage	300 V, CAT I

Current Probe

GCP-1030

Probe Bandwidth	DC to 100 MHz
Rise Time	3.5 ns or less
Maximum Continuous Input Range	30 Arms
Maximum Peak Current Value	50 A peak
Output Voltage Rate	0.1 V/A
Noise	2.5 mArms or less
Rate Supply Voltage	± 12 V ± 0.5 V
Maximum Rated Power	5.3 VA
Maximum Rated Voltage	300 V, CAT I

Power Supply

GCP-425P (for GCP-530/1030)

Compatible Current Probe	GCP-530 & GCP-1030
Number of Power Supply Connectors	4
Output Voltage	± 12 V ± 0.5 V
Rated Output Current	± 2.5 A
Rated Supply Voltage (50/60Hz)	100 V to 240 V AC $\pm 10\%$
Maximum Rated Power	170VA
Dimensions & Weight	80(W) x 119(H) x 200(D) mm ; Approx. 1.1 kg
Accessories	Power cord, fuse

Accessories



DS3A-16LA

16-Channel Logic Analyzer
(For GDS-3000A Series)



GTL-16E

16-Channel Logic Analyzer Probe
(For MSO-2000EA Series)



DS2-16LA

16-Channel Logic Analyzer
(For GDS-2000A Series)

Accessories



DS2-08LA

8-Channel Logic Analyzer
(For GDS-2000A Series)



GCP-201

Probe Clip, 20 PCS
(For MSO-2000EA Series)



GKT-100

Deskew Fixture
(For GDS-3000A Series)



DS2-LAN

Ethernet & SVGA Output
(For GDS-2000A Series)



DS2-GPIB

GPIB Interface
(For GDS-2000A Series)



DS2-FGN

DDS Function Generator
(For GDS-2000A Series)

Accessories

GCP-0275/0550/2525

Current Probe

(GDS-3000A, GDS-3000 Series, GDS-2000A Series, MDO-2000A Series, MDO-2000E Series, MSO-2000EA Series, GDS-2000E Series, GDS-1000B Series, MPO-2000 Series, GDS-900 Series)



Model	GCP-0275	GCP-0550	GCP-2525
Bandwidth (-3 dB)	DC to 2 MHz	DC to 5 MHz	DC to 25 MHz
DC + Peak AC MAX. (non-continuous)	750 A (*1)	500 A (*2)	250 A (*3)
Continuous Maximum Current (RMS)	500 Arms	350 Arms	170 Arms
Minimum Current	50 mA	20 mA	20 mA
Rise Time	175 ns or less	70 ns or less	14 ns or less
Conversion Ratio	2 mV/A (500 X) 20 mV/A (50 X)	5 mV/A (200 X) 50 mV/A (20 X)	10 mV/A (100 X) 100 mV/A (10 X)
Accuracy	2 mV/A : 1 % ± 1 mV 20 mV/A : 1 % ± 1 mV	5 mV/A : 1 % ± 1 mV 50 mV/A : 1 % ± 2 mV	10 mV/A : 1 % ± 1 mV 100 mV/A : 1 % ± 5 mV
Measuring Range (peak)	2 mV/A : 50 mA to 125 A 20 mV/A : 125 A to 750 A	5 mV/A : 20 mA to 50 A 50 mV/A : 50 A to 500 A	10 mV/A : 20 mA to 25 A 100 mV/A : 25 A to 250 A
Noise (RMS)	50 mA	20 mA	20 mA
Weight (Probe)	390 g	380 g	370 g
Size (Probe)	151.85 mm × 26.4 mm × 62.28 mm		
Intended Output Load	1 MΩ		
Clamp Dia.	20 mm		
Power Supply	DC 12 V / 2 A		
Coupling Mode	AC / DC		
Operating Temperature And Humidity	0 °C to 50 °C / 20 %RH to 75 %RH		
Insulated line Voltage	600V CAT II / 300V CAT III		

*1 750 A peak at pulse width of ≤ 30 μs

*2 500 A peak at pulse width of ≤ 30 μs

*3 250 A peak at pulse width of ≤ 30 μs



GSP-8800 8.0 GHz Spectrum Analyzer **GSP-9330 3.25 GHz Spectrum Analyzer**

SPECTRUM ANALYZERS

GW Instek's spectrum analyzer product line has three categories: application, basic and educational spectrum analyzers. These three categories are suitable for a wide range of test applications, ranging from R&D, service, maintenance, manufacturing, education and other RF-related fields.

The entire product line has five frequency ranges. The bandwidth ranges are 1.8 GHz / 3 GHz / 3.25 GHz / 3.8 GHz / 8.0 GHz respectively to meet the measurement functions of various applications, including ASK/FSK/AM/FM demodulation analysis, ACPR/OCBW/CHPW, SEM measurement, TOI, Harmonic, CNR/CTB/CSO, frequency counter and USB, RS-232, Lan, MicroSD, GPIB are also provided for the communication interface.

There are two application spectrum analyzers, GSP-9330 and GSP-9300B. GSP-9330 has built-in unique EMI-specific functions and is equipped with special test accessories, allowing engineers to quickly and accurately identify EMI problems. In order to provide more stable measurement and further signal analysis, it has built-in Spectrogram and Topographic display modes. Through time accumulation and image stacking, the energy changes of the signal can be easily displayed. The built-in sequence function allows customers to create and execute the required test steps directly on the instrument without the need of a PC connection.

The GSP-8000 series is a basic spectrum analyzer, providing three bandwidth measurement ranges including 1.8 GHz / 3.8 GHz / 8.0 GHz, and built-in basic measurement functions, such as AM/FM demodulation, channel power measurement, Time Spec display functions, etc., collocating with a 10.4-inch large display and easy-to-upgrade TG and EMI optional functions, which are suitable for general RF measurement applications.

GSP-730 is a spectrum analyzer developed for the education market and is equipped with a dedicated GRF-1300A communications module for teaching communications courses.

PRODUCTS

- | | |
|------------------------------|-----------------------------|
| • 8.0 GHz Spectrum Analyzer | • 3.0 GHz Spectrum Analyzer |
| • 3.8 GHz Spectrum Analyzer | • 1.8 GHz Spectrum Analyzer |
| • 3.25 GHz Spectrum Analyzer | • RF Training System |

3.25 GHz Spectrum Analyzer

CE



GSP-9330

- * Frequency Range : 9 kHz to 3.25 GHz
- * 0.025 ppm Frequency Stability and 1ppm Aging Rate
- * RBW : 1 Hz to 1 MHz (3 dB), 6 dB EMI Filter : 200 Hz, 9 kHz, 120 kHz, 1 MHz
- * Fastest Sweep Time : 204 μ s
- * Sensitivity : -149 dBm/Hz (@PreAmp on)
- * Built-in Preamplifier, 50 dB Attenuator, and Sequence Function
- * Built-in EMC Pretest Function, Quasi-Peak/Average EMI Detect Mode
- * Built-in 2FSK Analysis, AM/FM/ASK/FSK Demodulation & Analysis
- * Built-in P1dB Point, Harmonic, CHPW, OCBW, ACPR, SEM, TOI, CNR, CTB, CSO, N-dB Bandwidth, Noise Marker, Frequency Counter, TDP, Gated Sweep
- * Built-in Spectrogram, Topographic and Split-Window Display Modes
- * Remote Control EMI Measurement Software : SpectrumShot
- * Remote Control Interface : LAN, USB, RS-232
- * Options : Tracking Generator, GPIB Interface

8.0 GHz/3.8 GHz/1.8 GHz Spectrum Analyzer

CE



NEW

GSP-8000 Series

- * Frequency Range
 - GSP-8800 : 9 kHz to 8.0 GHz
 - GSP-8380 : 9 kHz to 3.8 GHz
 - GSP-8180 : 9 kHz to 1.8 GHz
- * RBW : 1 Hz to 1 MHz; VBW : 10 Hz to 1 MHz
- * Phase Noise : -104 dBc/Hz Typical
- * Sensitivity : -160 dBm/Hz Typical @PreAmp On
- * Built-in AM/FM Demodulation
- * Built-in Time Spec Function
- * Measurement Function : ACPR/OCBW/CHPW, NdB Bandwidth, Freq. Counter, Noise Marker
- * Built-in 20 dB Preamplifier Standard
- * Interface : Lan, USB Host/Device
- * Screen : 10.4" XGA Output (1024 x 768)
- * Options : Tracking Generator, EMI Detector

3 GHz Spectrum Analyzer

CE



GSP-9300B

- * Frequency Range : 9 kHz to 3 GHz
- * 0.025 ppm Frequency Stability and 1 ppm Aging Rate
- * Built-in Preamplifier, 50 dB Attenuator, and Sequence Function
- * RBW : 1 Hz to 1 MHz
- * Sensitivity : -149 dBm/Hz (@PreAmp on)
- * Built-in AM/FM Demodulation & Analysis
- * Built-in 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, Topographic and Dual-View Display Modes
- * Remote Control Software : SpectrumShot
- * Remote Control Interface : LAN, USB, RS-232
- * Options : Tracking Generator, GPIB Interface

3 GHz Spectrum Analyzer

CE



GSP-730

- * Frequency Range : 150 kHz to 3 GHz
- * Autoset Function
- * Noise level : $\leq$ -100 dBm
- * RBW Range : 30 kHz, 100 kHz, 300 kHz, 1 MHz
- * 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

RF and Communications Trainer

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



GSP-730

- * Frequency Range : 150 kHz to 3 GHz
- * Autoset Function
- * Noise level : ≤ -100 dBm
- * RBW Range : 30 kHz, 100 kHz, 300 kHz, 1 MHz
- * 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 to 3 MHz
 - Square Wave : 0.1 to 3 MHz
 - Triangle Wave : 0.1 to 3 MHz
- * RF Frequency : 870 to 920 MHz
- * 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 & 2.4 GHz Band Pass Filter

USG-LF44

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

EMI Pretest Solution - Faster - Easier!

GSP-9330

3.25 GHz Spectrum Analyzer

- * Frequency Range: 3.25 GHz
- * EMC Pretest Dedicated Functions
- * Peak, QP, Average Detectors
- * PreAmp, Lin/Log Scale



Dedicated PC Software

- * SpectrumShot



GKT-008

EMI Probe Kit Set

- * Sensing Probes: ANT-04, ANT-05
- * Contact Probes: PR-01, PR-02



GLN-5040A

Two Line V-Network



APS-7100E

AC Power Source



GPL-5010

Transient Limiter



MFG-2000 Series 200/60/30/20/10 MHz Multi-Channel Function Generator

AFG-3081/3051 80/50 MHz Arbitrary Function Generator

GSG-2000 Series 6 GHz Vector Signal/Signal Generator

AFG-4000 Series 25/35/60/80/100/250 MHz Arbitrary Function Generator

SIGNAL SOURCES

GW Instek has been one of the major signal source suppliers for worldwide users by providing the advanced-featured products for decades. The wide product lines including GSG-2000 series, MFG (Multi-Channel Function Generator), AFG (Arbitrary Function Generator), RF Signal Generator and DDS (Direct Digital Synthesized) Function Generators are well provided. The GSG-2000 series provides 6 GHz frequency bandwidth. The minimum frequency resolution and amplitude resolution are 1mHz and 0.01 dB respectively. With respect to signal modulation, the series has built-in AM, FM and PM. GSG-2160 is vector signal generator which feature the digital signal modulation function, and output up to 60 MHz of digital signals, supporting ASK, PSK, APSK, QAM, FSK, MSK, user-defined IQ, user defined FSK modulation signals. The AFG-4000 series is GW Instek's first arbitrary function generator series to be equipped with an 8" large touch screen. The frequency bandwidth of the single-channel models is 25 MHz, and dual-channel models feature 250 MHz/100 MHz/80 MHz/60 MHz/35 MHz/25 MHz frequency bandwidth selections. The MFG-2000 series is a mainstay function generator and its special feature is that you can output maximum five channels simultaneously. One of the five channels is RF Generator and its frequency is from 1 μ Hz to 160 MHz/320 MHz. The isolated channel design is an important feature of GW Instek function generators. Output Channels, synchronization and modulation input/output connector grounding are isolated from instrument chassis. The MFG-2000 series is designed for scientific research and educational applications by the RF Generator and the isolated design. The AFG-3000 series is designed for industrial, scientific research and educational applications by the high sample rate and the long waveform length. The AFG-2000 is designed to accommodate the educational and basic industrial requirements. The USG series is a pocket-sized, and USB interface compatible RF signal generator. The SFG series is a DDS based design for entry level engineering and educational applications. To fit versatile applications, each product line features different frequency ranges and/or specifications to meet the demands. Last but not least, Audio Generators are also provided for the specific fields.

PRODUCTS

- | | | |
|--|--|-----------------------|
| • 6 GHz Vector Signal/Signal Generator | • True Dual Channel Arbitrary Function Generator | • Audio Generator |
| • Arbitrary Function Generator | • DDS Function Generator | • RF Signal Generator |
| • Multi-Channel Function Generator | | |

6 GHz Vector Signal Generator/Signal Generator

CE



GSG-2160/2060

NEW
台灣精品
TAIWAN EXCELLENCE

- * Frequency Range : 9 kHz to 6 GHz
- * Frequency Resolution : 1 mHz
- * Standard 10 ppm Frequency Stability, 2 ppm/year Aging Rate.
(Optional: 10 ppb Frequency Stability with 0.1 ppm/year Aging Rate)
- * Amplitude Range : -140 dBm to +20 dBm
- * 0.01 dBm Amplitude Setting Resolution
- * Amplitude Support dBm, dBuV, Vrms Unit
- * Phase Noise: < -117 dBc/Hz (typical) @ 1 GHz Output and 20 kHz Offset
- * Frequency/Amplitude Switching Speed : < 5 ms
- * Built-in LF Output, Pulse Output
- * Built-in in AM, FM, PM Analog Modulation
- * Support IQ Modulation Output (Only for GSG-2160)
 - Maximum 60 MHz Baseband I or Q Modulation Output
 - Maximum 120 MHz RF I-Q Modulation Output
- * Built-in ASK, PSK, QAM, FSK, MSK, User-defined IQ, User-defined FSK Modulation Signal
- * Provide USB, LAN and GPIB (Opt), Compatible SCPI Command Standard

Multi-Channel Function Generator

CE



MFG-2220HM

- * Three Output Channels
 - 2 Equivalent Performance Arbitrary Channels Frequency: 1 μ Hz to 200 MHz
 - Pulse Generator Frequency: 25 MHz
- * True Point by Point Output Arbitrary Waveform Function: 250 MSa/s, 125 MHz Repetition Rate, 14-bit Resolution, 16 k Points Memory Depth
- * Frequency Counter : 150 MHz, 8-bit Frequency Resolution
- * AM/FM/PM/ASK/FSK/PSK/SUM/PWM/PSK/ASK Modulation
- * Reference Input /Output
- * USB Host/USB Device/LAN
- * 4.3 Inch TFT Color Display

Multi-Channel Function Generator

CE



MFG-2200/2100 Series

- * Maximum Five Output Channels
 - 2 Equivalent Performance Arbitrary Channels Frequency: 1 μ Hz to 10/20/30/60 MHz
 - RF Channel Frequency (FG/ARB/MOD): 160/320 MHz
 - Pulse Generator Frequency: 25 MHz
 - Power Amplifier: Low Frequency, 5Hz to 100 kHz, 20 dB/20 W (limited by current setting)
- * True Point by Point Output Arbitrary Waveform Function: 200 MSa/s, 100 MHz Repetition Rate, 14-bit Resolution, 16 k Points Memory Depth
- * 4.3 Inch TFT Color Display
- * Earth Ground Isolation Design among I/O Terminals and Instrument Chassis
- * Frequency Counter : 150 MHz, 8-bit Frequency Resolution
- * AM/FM/PM/ASK/FSK/PSK/SUM/PWM Modulation
- * Built-in Medical and Automotive Electronic Waveforms
- * USB Host/USB Device/LAN

Arbitrary Function Generator



AFG-4000 Series

NEW

- * Provide Single-channel or Dual-channel Output Single Channel: AFG-4125E/4125AE (25 MHz); Dual Channel: AFG-4225E/4235/4260/4280/4210H/4225H (25/35/60/80/100/250 MHz)
- * Built-in Sine, Square, Triangle, Ramp, Pulse, Noise, Harmonic Wave, Arbitrary Wave
- * Min. Resolution : 1 μ Hz & Built-in Sweep, Burst, Counter Function
- * Sampling Rate: AFG-4225H: 1.25 GSa/s; AFG-4235/4260/4280/4210H: 500 MSa/s; AFG-4125E/4125AE/4225E: 125 MSa/s
- * Amplitude Resolution: AFG-4125E/4125AE/4225E: 14 bits; AFG-4235/4260/4280/4210H/4225H: 16 bits
- * Memory Length: AFG-4225E/4235/4260/4280/4210H/4225H: 10 M/ per channel; AFG-4125E/4125AE: 16 k/ per Channel
- * Modulation: AM, DSB-AM, FM, PM, PWM, ASK, PSK, BPSK, QPSK, FSK, 3FSK, ASK, OSK, SUM
- * AFG-4125AE Built-in Power Amplifier Function
- * Communication Interface: AFG-4235/4260/4280/4210H/4225H Provide USB, LAN Interface; AFG-4125E/4125AE/4225E Provide USB Interface
- * Multi-Touch Display: AFG-4235/4260/4280/4210H/4225H

Arbitrary Function Generator



AFG-3031/3032/3021/3022

- * 1 μ Hz to 20 or 30 MHz, 20 Vpp, 1 or 2 Channel (s)
- * Arbitrary Waveform 250 MSa/s, 16-bit Resolution, 8 M Memory Depth
- * Isolation Channel Circuit Design
- * Synchronized Phase Operates up to 6 Units and 12 Channels
- * Harmonic Signal Generator
- * Dual Channel Models Support SUM Modulation, Coupling, Tracking, and Phase Functions
- * Pulse Waveform Parameters Can be Set Independently
- * Built-in AM/FM/PM/FSK/PWM/SUM Modulation, Sweep and Burst Functions
- * Built-in Medical and Automotive Electronic Waveforms
- * Built-in I/Q baseband waveform on AFG-3032/3022
- * Provide USB/LAN/GPIB (Optional) Instrument Control Interface

Arbitrary Function Generator

CE



AFG-3081/3051

台灣精品
TAIWAN EXCELLENCE

- * Wide Frequency Range from 1 μ Hz to 80/50 MHz
- * 1 μ Hz Frequency Resolution throughout Full Range
- * Standard Waveform : Sine, Square, Triangle, Ramp, Pulse, Noise
- * Built-In AM, FM, PWM, FSK, Sweep, Burst Functions
- * 16 bit, 200 MSa/s, 1 M-Point Deep Arbitrary Waveform
- * Output From Any Section of 1 M Point Long Waveforms
- * DWR (Direct Waveform Reconstruction) Capability
- * Arbitrary Waveform Editing PC Software
- * 4.3" High Resolution LCD Display
- * USB, RS-232C, GPIB Standard Interfaces

True Dual Channel Arbitrary Function Generator

CE



AFG-2225

- * Wide Frequency Ranges From 1 μ Hz to 25 MHz (sine wave)
- * Built-in Standard 120 MSa/s, 10 bit, 4 k Points Arbitrary Function for Both Channels
- * True Dual-Channel Output, CH2 Provides the Same Characteristics as CH1
- * Dual-Channel Supports Couple, Tracking, Phase Operations
- * 1 % to 99 % Adjustable Duty Cycle for Square Waveform
- * Built-in Standard AM/FM/PM/FSK/SUM/Sweep/Burst and Frequency Counter
- * USB Host/Device Interface for Remote Control and Waveform Editing

CE



AFG-2100/2000 Series

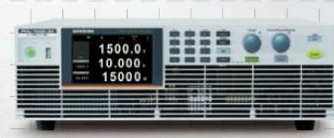
- * 0.1 Hz to 25/12/5 MHz with 0.1 Hz Resolution
- * Sine, Square, Ramp, Noise and Arbitrary Waveform
- * 20 MSa/s Sampling Rate, 10 bit Vertical Resolution and 4 k Point Memory for Arbitrary Waveform
- * 1 % to 99 % Adjustable Duty Cycle for Square Waveform
- * Amplitude, DC Offset and Other Key Setting Information Shown on the 3.5" LCD Screen Simultaneously
- * AM/FM/FSK Modulation, Sweep, and Frequency Counter Functions (Only AFG-2100 Series)
- * USB Device Interface for Remote Control and Waveform Editing
- * PC Arbitrary Waveform Editing Software

CE



SFG-1003/1013

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



GSM-20H10

Source Measure Unit

GPP-3060/6030

Triple-channel Programmable DC Power Supply

PSW-Multi Series

Dual-channel/Triple-channel Programmable Switching DC Power Supply

ASR-6000 Series

High-Performance AC/DC Power Supply

PEL-5000C Series

High Power DC Electronic Load

AEL-5000 Series

AC/DC Electronic Load

PEL-5000G Series

High Power DC Electronic Load

PHU-Series

Programmable Switching DC Power Supply

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, DC Electronic Load and AD/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 ASR-Series high-performance AC/DC power supply supports both single-phase and three-phase AC input and output. It features abundant functionalities for testing and characteristic analysis of power supplies, electronic devices, components, and modules. In addition to being an AC/DC power supply, the APS-Series is fully programmable to simulate different power outputs. Sequence can be created by using 0 to 999 steps as well as voltage or frequency sweeps.

A diversified product line of electronic loads, testing functionalities include high-power AC/DC, single/three-phase AC loads, single and multiple channel inputs, exclusive Turbo mode, AC constant voltage loading, loading with power-on, positive or negative half-cycle loading, hot-swapping, and other advantageous features. The main application include : Electric vehicles, solar energy, energy storage systems, server power supplies, power electronics, etc., User can use the built-in dedicated test modes of GW Instek electronic loads to simplify users' operating procedures and shorten the test time.

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

- Source Measure Unit
- High-Performance AC/DC Power Supply
- Linear AC Power Source
- Switching DC Power Supply Signal/Multiple Output Channel
- Linear DC Power Supply Signal/Multiple Output Channel
- DC Power Supply+DC Load Integration Model
- High-Speed DC Power Supply
- AC/DC Electronic Load
- Current Shunt

Dual-channel/Triple-channel Programmable Switching DC Power Supply

CE



PSW-Multi Series

NEW

- * Multi-channel: Maximum 720 W for Dual-channel Models and Maximum 1080 W for Triple-channel Models; Output Latency Between Channels with the Same Voltage Module is Less Than 0.1 ms
- * Multiple Voltage Combinations: Low Voltage Combinations Can be Selected From 30 V/40 V/80 V/160 V; High Voltage Combinations Can be Selected From 250 V/800 V
- * Advanced Web Server: Executes SCPI Commands; Controls Through the Server; Data Log; Edit Sequence
- * CC/CV Priority Mode Selection is Ideal for Battery and LED Industries
- * Adjustable Slew Rate
- * High Efficiency and High Power Density Power Supply
- * Standard Communications Interfaces: LAN, USB, External Analog Remote Control Terminal
- * Optional Communications Interfaces: GPIB-USB Adaptor, RS232-USB cable
- * Support LabVIEW Driver

CE



PSW-Series

- * Voltage Rating : 30 V/40 V/80 V/160 V/250 V/800 V, Output Power Rating : 360 W to 1080 W
- * CV/CC Priority; Particularly Suitable for the Battery and LED Industry
- * Adjustable Slew Rate
- * Series Operation (2 units in Series) for (30 V/40 V/80 V/160 V)
- * Parallel Operation (to 3 units Parallel) for (30 V/40 V/80 V/160 V/250 V/800 V)
- * High Efficiency and High Power Density
- * 1/2, 1/3, 1/6 Rack Mount Size Design (EIA/JIS Standard) for 360 W, 720 W, 1080 W
- * Standard Interface : LAN, USB, Analog Control Interface
- * Optional Interface : GPIB-USB Adaptor, RS232-USB Cable
- * Support LabVIEW Driver

Model	PSW 30-36	PSW 30-72	PSW 30-108	PSW 40-27	PSW 40-54	PSW 40-81
Channel	1	1	1	1	1	1
Power	360 W	720 W	1080 W	360 W	720 W	1080 W
Voltage	0-30 V	0-30 V	0-30 V	0-40 V	0-40 V	0-40 V
Current	0-36 A	0-72 A	0-108 A	0-27 A	0-54 A	0-81 A

Model	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
Power	360 W	720 W	1080 W	360 W	720 W	1080 W
Voltage	0-80 V	0-80 V	0-80 V	0-160 V	0-160 V	0-160 V
Current	0-13.5 A	0-27 A	0-40.5 A	0-7.2 A	0-14.4 A	0-21.6 A

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	360 W	720 W	1080 W	360 W	720 W	1080 W
Voltage	0-250 V	0-250 V	0-250 V	0-800 V	0-800 V	0-800 V
Current	0-4.5 A	0-9 A	0-13.5 A	0-1.44 A	0-2.88 A	0-4.32 A

Programmable Switching DC Power Supply

CE



PSU-Series

- * Voltage Rating: 6 V/8 V/12.5 V/15 V/20 V/30 V/40 V/50 V/60 V/80 V/100 V/150 V/300 V/400 V/600 V
- * Power Output : 1200 W to 1560 W & CV/CC Priority Mode
- * Adjustable Voltage/Current Rise and Fall Time
- * Series/Parallel Connection : Max. 2 units (Models Under 300V)/4 units of The Same Model
- * High Efficiency and High Power Density & 1 U Height and 19" Rack Mount Size
- * Three sets of Preset Function & Bleeder Control Function
- * Internal Resistance Function & Panel Lock Function
- * Protection : OVP, OCP, OHP, UVL, AC Fail, FAN Fail
- * Standard : USB, LAN, RS-232, RS-485, Analog Control
- * Option : GPIB, Isolated Analog Interface (Voltage Control/Current Control)

Model	PSU 6-200	PSU 8-180	PSU 12.5-120	PSU 15-100	PSU 20-76	PSU 30-50	PSU 40-38	PSU 50-30
Channel	1	1	1	1	1	1	1	1
Power	1200 W	1440 W	1500 W	1500 W	1520 W	1500 W	1520 W	1500 W
Voltage	0-6 V	0-8 V	0-12.5 V	0-15 V	0-20 V	0-30 V	0-40 V	0-50 V
Current	0-200 A	0-18 A	0-120 A	0-100 A	0-76 A	0-50 A	0-38 A	0-30 A

Model	PSU 60-25	PSU 80-19	PSU 100-15	PSU 150-10	PSU 300-5	PSU 400-3.8	PSU 600-2.6
Channel	1	1	1	1	1	1	1
Power	1500 W	1520 W	1500 W	1500 W	1500 W	1520 W	1560 W
Voltage	0-60 V	0-80 V	0-100 V	0-150 V	0-300 V	0-400 V	0-600 V
Current	0-25 A	0-19 A	0-15 A	0-10 A	0-5 A	0-3.8 A	0-2.6 A

Programmable Switching DC 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
- * Self-Test and Software Calibration
- * Output ON/OFF Control
- * Low Ripple and Noise
- * LCD Display
- * Built-in Buzzer Alarm
- * Standard Interface : RS-232C
- * Optional Interface : GPIB (IEEE-488.2)
- * LabVIEW Driver

Fanless Multi-range DC Power Supply

CE



PFR-100L/100M

- * Constant Power Output for Fivefold Multi-Range(V&I) Operation
- * Natural Convection Cooling Design(Fanless Structure)
- * Preset Memory Function & Output ON/OFF Delay Function
- * CV, CC Priority Mode & Bleeder Circuit Control
- * Adjustable Slew Rate For Voltage and Current
- * Protection : OVP, OCP, AC FAIL and OTP
- * Support Front Panel and Rear Panel Output
- * Interface : USB, LAN, RS-232/485(std.); GPIB(opt.)
- * Web Server Monitoring and Control
- * External Analog Control and Monitor Function

Model	PFR-100L	PFR-100M
Power	100 W	100 W
Voltage	50 V	250 V
Current	10 A	2 A

Programmable Switching DC Power Supply

PSB-2400L/PSB-2400L2
PSB-2800L/PSB-2800LS (Low Voltage)

- * Output Voltage Rating:0 to 80 V,Output Power Rating:400 W to 800 W
- * Constant Power Output for Multi-Range (V & I) Operation
- * Series and Parallel Operation for Low 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

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

Programmable Switching DC Power Supply



PSB-2400H/PSB-2800H (High Voltage)

- * Output Voltage Rating:0 to 800 V,Output Power Rating:400 to 800 W
- * 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	400 W	800 W
Output Voltage	0-800 V	0-800 V
Output Current	0-3 A	0-6 A

Programmable Switching DC Power Supply

CE



PSP-Series

- * 3 Step Fan Speed Control
- * LCD Display
- * Output ON/OFF Control
- * OVL/OCL/OTP/OPL 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 ~ 60 V x 1	0 ~ 40 V x 1	0 ~ 20 V x 1
Current	0 ~ 3.5 A x 1	0 ~ 5 A x 1	0 ~ 10 A x 1

Switching DC 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	12 V	18 V	24 V	36 V	60 V
Current	30 A	20 A	15 A	10 A	6 A

Multiple Output Dual Range DC Power Supply

CE



SPD-3606 (Switching Type)

- * Three Independent, Isolated Output
- * CH1/CH2 : Dual Range Output of 30 V/6 A or 60 V/3 A to Cover Wide Application
- * CH3 Adjustable Output : 0.1 to 5 V/3 A
- * 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)

Source Measure Unit

CE



GSM-20H10

NEW 台灣精品
TAIWAN EXCELLENCE

- * Maximum Output $\pm 210 \text{ V} / \pm 1.05 \text{ A} / 22 \text{ W}$
- * Built-in 4 Sequence Output Modes (Stair, Log, SRC-MEM, Custom), up to 2500 Points
- * OVP / OTP Protection Function
- * 0.012% Basic Measure Accuracy with 6 1/2-digit Resolution
- * Variable Sampling Speed
- * SDM (Source Delay Measure) Cycle
- * 2-, 4-, and 6-wire Remote V-source and Measure Sensing
- * Variable Display Digits & Built-in Limit Function
- * Built-in 5 Calculation Functions & Built-in RTC Clock
- * 4.3" TFT LCD, Digital Number Keyboard
- * Interface: RS-232, USBTMC, LAN, GPIB (Optional)

Programmable High Precision DC Power Supply

CE



PPH-1503/1503D/1506D/1510D

- * 3.5 inch TFT LCD Display
- * External Relay On/Off Control
- * Front and Rear Panel Output Terminal
- * Key Lock Function & 5 sets of Preset Memory Including Power Output On/Off States
- * High Speed Transient Response Time < 40 μs within 100 mV (for rear output) ; < 80 μs within 20 mV
- * OVP, OCP and OTP Protection
- * PC Remote Control Interface (Standard): USB/GPIB/LAN

Model	PPH-1503	PPH-1503D	PPH-1506D	PPH-1510D
Channel	CH1	CH1	CH1	CH1
Power	45 W	45 W	18 W	45 W
Voltage	0-15 V/0-9 V	0-15 V/0-9 V	0-12 V/0-15 V/0-9 V	0-12 V/0-15 V/0-9 V
Current	0-3 A/0-5 A	0-3 A/0-5 A	0-1.5 A/0-3 A/0-5 A	0-3 A/0-5 A

Programmable High Precision DC Power Supply

CE



PPX-Series

台灣精品
TAIWAN EXCELLENCE

- * C.V/C.C Priority Function
- * 4 Ranges of Current Measurement (min. resolution 0.1 μA) and 2 Ranges of Voltage Measurement (min. resolution 0.1 mV)
- * Data Log Function (sample range: 0.1-999.9 Sec/Over 10 giga record data)
- * Test Sequence Function
- * Voltage Remote Sense Function
- * Support Temperature Measurement of K-type Thermocouple
- * Interface: USB, LAN, RS-232, RS-485, Analog Control; Opt: GPIB

Model	PPX-1005	PPX-2002	PPX-2005	PPX-3601	PPX-3603	PPX-10H01
Power	50 W	40 W	100 W	36 W	108 W	100 W
Voltage	10 V	20 V	20 V	36 V	36 V	100 V
Current	5 A	2 A	5 A	1 A	3 A	1 A

Single Channel Programmable DC Power Supply

CE



GPP-3610H/7250

NEW

- * GPP-3610H: 36 V/10 A; GPP-7250: 72 V/5 A; 4.3" TFT LCD Display
- * Programming Resolution: 1 mV/0.2 mA (GPP-3610H); 2 mV/0.2 mA (GPP-7250)
- * Readback Resolution: 0.1 mV/0.1 mA & Low Ripple Noise: $\leq 1 \text{ mVrms} / \leq 2 \text{ mArms}$
- * Transient Response Time: $\leq 100 \mu\text{s}$ & Load Function (CC, CV, CR Mode)
- * Utilizes Hardware to Realize Over Voltage Protection/Over Current Protection/Over Temperature Protection
- * Delay Function/Output Monitoring Function/Output Recorder Function
- * Supports Setting Value, Measurement Value and Output Waveform Display
- * Sequential Output Function and Built-in 8 Template Waveforms
- * The Output Recorder Function Records the Output Voltage & Current Parameters with a Minimum Recording Interval of 1 Second
- * Sequence/Delay/Recorder/Panel Setting Conditions Respectively Provide 10 Sets of Internal Storage Memory
- * Intelligent Temperature-controlled Fan Effectively Reduces Noise
- * Standard Interface: RS-232, USB, Ext I/O
- * Optional Interface (Manufacturer Installed Only): LAN, GPIB+LAN

Triple-channel Programmable DC Power Supply

CE



GPP-3060/6030/3650

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- * Over Current Protection/Over Temperature Protection
- * Delay Function/Output Monitoring Function/Output Recorder Function
- * Supports Setting Value, Measurement Value and Output Waveform Display
- * Sequential Output Function and Built-in 8 Template Waveforms
- * The Output Recorder Function Records the Output Voltage & Current Parameters with a Minimum Recording Interval of 1 Second
- * Provides 10 Sets of Memory for Each Sequence/Delay/Recorder/Panel Setting Condition
- * Supports a USB (Type A) Output Terminal
- * Intelligent Temperature Control Fan Effectively Reduces Noise
- * Standard: RS-232, USB, LAN, Ext I/O; Optional (manufacturer installed only): GPIB

Model	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
Voltage	0-30 V	0-30 V	1.8/2.5/3.5 V	0-60 V	0-60 V	1.8/2.5/3.5 V	0-36 V	0-36 V	1.8/2.5/3.5 V
Current	0-6 A	0-6 A	5 A	0-3 A	0-3 A	5 A	0-5 A	0-5 A	5 A

Multi-output Programmable DC Power Supply

CE



GPP-X323 Series

- * Load Function (CC, CV, CR Mode)
- * Setting/Read back Resolution: 1 mV/0.1 mA; 0.1 mV/0.1 mA
- * Low Ripple Noise: $\leq 350 \mu\text{Vrms} / \leq 2 \text{ mArms}$
- * Transient Response Time: $\leq 50 \mu\text{s}$
- * Sequential Output Function, Built-in 8 Template Waveforms
- * Output Recorder Function, Minimum Interval of 1 Second
- * Standard: RS-232, USB, Ext I/O
- * Optional: LAN, GPIB+LAN

Model	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH4
Voltage	0-32 V	0-32 V	0-32 V	0-32 V	0-32 V	1.8/2.5/3.5 V	0-32 V	0-32 V	0-32 V	0-15 V
Current	0-6 A	0-3 A	0-3 A	0-3 A	0-3 A	5 A	0-3 A	0-3 A	0-1 A	0-1 A

Multiple Output Programmable Linear DC Power Supply

CE



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: 1 mV/1 mA (GPD-2303S/3303S/4303S)
- * 100 mV/10 mA (GPD-3303D)
- * Standard Interface: USB * Output ON/OFF
- * 4 Sets Save/Recall

Model	GPD-2303S	GPD-3303S	GPD-4303S	GPD-3303D
Channel	CH1	CH2	CH1	CH2
Voltage	0-30 V	0-30 V	0-30 V	0-30 V
Current	0-3 A	0-3 A	0-3 A	0-3 A

Programmable Linear DC Power Supply

CE



PSS-Series

- * High Resolution 10 mV, 1 mA
- * 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	0-20 V x 1	0-32 V x 1
Current	0-5 A x 1	0-3 A x 1

Multiple Output Programmable Linear DC Power Supply

CE



PPE-3323

- * Easy Operation with UP/DOWN Key
- * High Resolution: 10 mV, 1 mA
- * Over Voltage Protection, Over Current Protection (by Software)
- * 50 Sets Memory
- * Self Test and Software Calibration
- * Auto Step Running With Timer Setting
- * Triple Output
- * Auto Tracking
- * RS-232C Communication
- * High Stability, Low Drift
- * 4 Digit Display
- * IEC Safety Regulation

Multiple Output Linear DC Power Supply

CE



GPE-X323 Series

- * Setting and Read back Resolution : 100 mV/10 mA
- * 1, 2, 3 and 4 Independent Isolated Output
- * 4.3 inch Display With Set View Function
- * Output On/Off Switch
- * Tracking Series and Parallel Operation
- * Remote Control Function in Rear Panel
- * Key Lock Function

Model	GPE-1326	GPE-2323	GPE-3323	GPE-4323
Channel	CH1	CH1	CH2	CH3
Output Voltage	0-32 V	0-32 V	0-32 V	0-32 V
Output Current	0-6 A	0-3 A	0-3 A	0-3 A
Series Operation	-	0-64 V	0-64 V	-
Parallel Operation	-	0-6 A	0-6 A	-

Triple Output Linear DC Power Supply

CE



GPE-3060/6030

- * 3 Independent Isolated Outputs
- * 4.3 Inch LCD Display
- * CH1/CH2 Output: 30 V/6 A (GPE-3060)
- * CH1/CH2 Output: 60 V/3 A (GPE-6030)
- * CH3 Output: 5 V/5 A
- * Key Lock Function
- * Output On/off
- * OVP (Over Voltage Protection)
- * Read Back Resolution: 30 mV/10 mA
- * Remote control (Output ON/OFF)
- * Setting Resolution: 10 mV/1mA
- * Tracking Series And Parallel Operation

Multiple Output Linear DC 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
Channel	CH1	CH2	CH3
Voltage	0-30 V	0-30 V	0-30 V
Current	0-3 A	0-3 A	0-3 A
Tracking Series Voltage	0-60 V	0-60 V	-
Tracking Parallel Current	0-6 A	0-6 A	-

Triple Output Linear DC Power Supply



GPC-3060D/6030D

- * Triple Output & Auto Tracking
- * Auto Series and Parallel Operation
- * Constant Voltage and Constant Current Operation
- * Low Ripple and Noise & 5 V, 3 A Fixed Output
- * Internal Select for Continuous or Dynamic Load
- * Overload and Reverse Polarity Protection
- * 3 1/2 Digits 0.5" LED Display

Model	GPC-6030D	GPC-3060D
Power	375 W	375 W
Series	120 V 3 A	60 V 6 A
Parallel	60 V 6 A	30 V 12 A

Linear DC Power Supply

CE



GPR-H Series

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

Model	GPR-0810HD	GPR-1820HD	GPR-3510HD	GPR-6060D
Power	240 W	360 W	330 W	360 W
Volts	0-8 V	0-18 V	0-35 V	0-60 V
Amps	0-30 A	0-20 A	0-10 A	0-6 A

Linear DC 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 Digit 0.5" LED Display

Model	GPR-1810HD	GPR-3060D	GPR-6030D
Power	180 W	180 W	180 W
Output Volts	0-18 V	0-30 V	0-60 V
Output Amps	0-10 A	0-6 A	0-3 A

Linear DC Power Supply

CE



GPS-Series

- * Light and Compact Design
- * 0.01 % High Regulation
- * Constant Voltage and Constant Current Operation
- * Remote Control for External Programmability
- * Internal Select for Continuous or Dynamic Load
- * Low Ripple and Noise
- * Overload and Reverse Polarity Protection
- * Series or Parallel Operation
- * Optional European Type Jack Terminal (for GPS-3030D/GPS-3030DD)

Model	GPS-1830D	GPS-1850D	GPS-3030D	GPS-3030DD
Power	54 W	90 W	90 W	90 W
Output Volts	0 ~ 18 V	0 ~ 18 V	0 ~ 30 V	0 ~ 30 V
Output Amps	0 ~ 3 A	0 ~ 5 A	0 ~ 3 A	0 ~ 3 A

Multi-Range High Power DC Source

CE



PHU-Series

- * Voltage Output : 80 V/200 V/500 V/750 V/1000 V/1500 V
- * Power Output : 5 kW/10 kW/15 kW
- * Maximum Current Output : 510 A
- * C.V./C.C Priority Mode
- * Adjustable Voltage/Current Rise and Fall Time
- * AWS (Advanced Web Control)
- * APC (Adaptive Parallel Connection)
- * Parallel Connection (Maximum 10 Units)
- * High Efficiency and High-power Density
- * Bleeder Control Function
- * Internal Resistance Function
- * Panel Lock Function
- * Three Sets of Preset Function
- * Protection : OVP, OCP, OHP, UVL, AC Fail, FAN Fail

- * Standard : USB, LAN, Isolated Analog Control
- * Option: RS-232C&485 or GPIB or CAN Bus or DeviceNet or Any Bus
- * 3U Height and 19" Rack Mount Size

NEW

5KW		10KW		15KW	
Model	Specification	Model	Specification	Model	Specification
PHU 80-170	80 V/170 A/5 kW	PHU 80-340	80 V/340 A/10 kW	PHU 80-510	80 V/510 A/15 kW
PHU 200-70	200 V/70 A/5 kW	PHU 200-140	200 V/140 A/10 kW	PHU 200-210	200 V/210 A/15 kW
PHU 500-30	500 V/30 A/5 kW	PHU 500-60	500 V/60 A/10 kW	PHU 500-90	500 V/90 A/15 kW
PHU 750-20	750 V/20 A/5 kW	PHU 750-40	750 V/40 A/10 kW	PHU 750-60	750 V/60 A/15 kW
PHU 1000-15	1000 V/15 A/5 kW	PHU 1000-30	1000 V/30 A/10 kW	PHU 1000-45	1000 V/45 A/15 kW
PHU 1500-10	1500 V/10 A/5 kW	PHU 1500-20	1500 V/20 A/10 kW	PHU 1500-30	1500 V/30 A/15 kW

Programmable AC/DC Power Source

CE



ASR-2000 Series

- * Measurement Items: Vrms, Vavg, Vpeak, Irms, IpkH, Iavg, Ipeak, P, S, Q, PF, CF
- * Voltage and Current Harmonic Analysis (THDv, THDi)
- * Customized Phase Angle for Output On/Off
- * Remote Sensing Capability
- * OVP, OCP, OPP, OTP, AC Fail Detection and Fan Fail Alarm
- * Interface: USB, LAN, RS-232C (std.); GPIB (opt.)
- * Sequence and Simulation Function (up to 10 sets)

Model	ASR-2050/2050R	ASR-2100/2100R
Output Voltage	0~350 Vrms/0~500 Vdc	0~350 Vrms/0~500 Vdc
Output Current	5/2.5 A	10/5 A
Power Rating	500 VA	1000 VA
Output Frequency	1.00 Hz ~ 999.9 Hz	1.00 Hz ~ 999.9 Hz

Programmable AC/DC Power Source

CE



ASR-3000 Series

- * Measurement Items: Vrms, Vavg, Vpeak, Irms, IpkH, Iavg, Ipeak, P, S, Q, PF, CF
- * Sequence and Simulation Function (Up to 10 sets)
- * Remote Sensing Capability
- * OCP, OPP, OTP, AC Fail Detection and Fan Fail Alarm
- * Support Arbitrary Waveform Function
- * Customized Phase Angle for Output On/Off
- * Interface (std.): USB, LAN, RS-232C, GPIB

Model	ASR-3200	ASR-3300	ASR-3400	ASR-3500	ASR-3400HF
Output Voltage	0~400 Vrms/0~570 Vdc	0~400 Vrms/0~570 Vdc	0~400 Vrms/0~570 Vdc	0~400 Vrms/0~570 Vdc	0~400 Vrms/0~570 Vdc
Output Current	20/10 A	30/15 A	40/20 A	50/25 A	40/20 A
Power Rating	2000 VA	3000 VA	4000 VA	6000 VA	4000 VA
Output Frequency	1.00~999.9 Hz	1.00~999.9 Hz	1.00~999.9 Hz	1.00~999.9 Hz	1.00~5000 Hz

High-Performance AC/DC Power Supply

CE



ASR-6000 Series

- * Adopts Third-generation Semiconductor Silicon Carbide (SiC) Technology to Create a 4 U 6 kVA High-performance AC/DC Power Source with High Power Density
- * AC Input Supports Single-phase and Three-phase, Phase Voltage 200 V to 240 V ±10% (Delta or Y Connection)
- * 10 output Modes: Including External Input Signal Frequency and Mains Synchronization (SYN), External Voltage Controlled Internal Amplifier Output (VCA)
- * Multi-channel Output Function & Supports AC 1P2W, 1P3W, 3P4W Output
- * AC Maximum Output Phase Voltage: 350Vrms Line Voltage: 700 Vrms
- * AC Balanced and Unbalanced Three-phase, Phase Failure Output Functions
- * Programmable Output Impedance Adjustment
- * Voltage Output Rise Time Can be Adjusted in Three Ranges
- * Support Parallel Connection Type Up to 24 kVA Maximum
- * Interfaces: RS-232C, USB, LAN; Opt: CAN BUS, DeviceNet, GPIB

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High-Performance AC/DC Power Supply

CE



ASR-6450-09/6600-12 (Two units)



ASR-6450-13.5/6600-18 (Three units)



ASR-6450-24 (Four units)

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Model	ASR-6450	ASR-6450-09	ASR-6450-13.5	ASR-6600	ASR-6600-12	ASR-6600-18	ASR-6600-24
AC Input	Single Phase 200 V to 240 V 3P3W / 3P4W 200 V to 240 V	-	-	200 V to 240 V	-	-	-
Output Voltage	Phase Voltage Line Voltage (Poly) DC Voltage	0.00 V to 175.0 V / 0.0 V to 350.0 V 1P3W : 0.00 V to 175.0 V / 0.00 V to 700 V ; 3P4W : 0.00 V to 303.1 V / 0.00 V to 606.2 V - 250 V to + 250 V / - 500 V to + 500 V	-	-	-	-	-
Output Current	Single-phase Polyphase	22.5 A / 45 A 7.5 A / 15 A	45 A / 90 A 15 A / 30 A	67.5 A / 135 A 22.5 A / 45 A	30 A / 60 A 10 A / 20 A	60 A / 120 A 20 A / 40 A	90 A / 180 A 30 A / 60 A
Output Capacity	1P2W / 3P4W 1P3W DC	4.5 KVA 3 KVA 4.5 KVA	9 KVA 6 KVA 9 KVA	13.5 KVA 9 KVA 13.5 KVA	6 KVA 4 KVA 6 KVA	12 KVA 8 KVA 12 KVA	18 KVA 12 KVA 18 KVA
Frequency	AC Mode AC + DC Mode	15 Hz to 2000 Hz 1 to 2000 Hz	15 Hz to 1000 Hz 1 to 1000 Hz	15 Hz to 1000 Hz 1 to 1000 Hz	15 Hz to 2000 Hz 1 to 2000 Hz	15 Hz to 1000 Hz 1 to 1000 Hz	15 Hz to 550 Hz 1 to 550 Hz

Programmable Linear AC Power Source



APS-7050/7100

- * 4.3-inch TFT-LCD
- * Output Capacity: APS-7050(500 VA, 310 Vrms, 4.2 Arms); APS-7100(1000 VA, 310 Vrms, 8.4 Arms) Output Augmentation by Options(0-600 Vrms/45-999.9 Hz)
- * Measurement and Test Functions Include VOLT, CURR, PWR, SVA, IPK, IPKH, FREQ, PF, CF
- * Support a Small AC Current Measurement 2 mA-35 A, Min. Revolution 0.01mA(APS-7050&APS-7100)
- * Reverse Current Alarm Function
- * Automatic Execution of Sequence, Simulate, Program mode and Output Function when the Power is on

Model	APS-7050	APS-7100
Power Rating	500 VA	1000 VA
Output Voltage	0 ~ 310.0 Vrms	
Output Frequency	45.00 ~ 500.0 Hz	

Programmable Linear AC Power Source



APS-7050E/7100E (Without Interface)

- * 4.3-inch TFT-LCD
- * Output Capacity: APS-7050E(500 VA, 310 Vrms, 4.2 Arms); APS-7100E(1000 VA, 310 Vrms, 8.4 Arms)
- * Measurement and Test Functions Include VOLT, CURR, PWR, IPKH, FREQ, PF
- * Support a Small AC Current Measurement 2 mA-35 A, Min. Revolution 0.01 mA
- * Reverse Current Alarm Function
- * Automatic Execution of Sequence, Simulate, Program mode and Output Function when the Power is on

Model	APS-7050E	APS-7100E
Power Rating	500 VA	1000 VA
Output Voltage	0 ~ 310.0 Vrms	
Output Frequency	45.00 ~ 500.0 Hz	

Programmable Linear AC Power Source



APS-7300
APS-7200

- * 4.3-inch TFT-LCD
- * Output Capacity: APS-7200(2000 VA, 310 Vrms, 16.8 Arms); APS-7300(3000 VA, 310 Vrms, 25.2 Arms) Output Augmentation by Options(0-600 Vrms/45-999.9 Hz)
- * Measurement and Test Functions Include VOLT, CURR, PWR, SVA, IPK, IPKH, FREQ, PF, CF
- * Reverse Current Alarm Function
- * Automatic Execution of Sequence, Simulate, Program mode and Output Function when the Power is on

Model	APS-7300	APS-7200
Power Rating	3000 VA	2000 VA
Output Voltage	0 ~ 310.0 Vrms	
Output Frequency	45.00 ~ 500.0 Hz	

Programmable DC Electronic Load



PEL-2000A(B) 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/OCV/OTP Protection all Level Could be Changed
- * PEL-2000A Series Interface Standard: USB, RS-232; Option: LAN, GPIB
- * PEL-2000B Series Interface Standard: USB, RS-232, LAN; Option: GPIB

Model	PEL-2020A(B)	PEL-2030A(B)	PEL-2040A(B)	PEL-2041A(B)
Channel	L/R	L/R	Left	Right
Range	Low	High	N/A	Low
Power	100 W	100 W	30 W	250 W
Current	0-2 A	0-2 A	0-5 A	0-4 A
Voltage	0-80 V	0-80 V	0-80 V	0-80 V
Min. Operating Voltage	0.2 V	0.2 V	0.2 V	0.2 V
Min. Operating Current	0.2 V	0.2 V	0.2 V	0.2 V

Programmable DC Electronic Load



PEL-3000A/3000AH Series

NEW

- * Operating Voltage (DC): 0-150 V(PEL-3000A)/0-800 V(PEL-3000AH)
- * 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: 9,450 W)
- * Support of High Slew Rate: Max 16 A/μs(PEL-3000A)/0.84 A/μs(PEL-3000AH)
- * Run Program Function (Go/NoGo Test)
- * Sequence Function for High Efficient Load Simulations
- * Dynamic (Switching) Function: 0.0166 Hz-20 kHz
- * Adjustable OCP/OPP/OTP/RVP Setting
- * Multi Interface: USB, RS-232/RS-485, GPIB(Optional), LAN

Model	PEL-3021A	PEL-3021AH	PEL-3041A	PEL-3041AH	PEL-3111A	PEL-3111AH	PEL-3211A	PEL-3211AH
Channel	L/R	L/R	Left	Right	Left	Right	Left	Right
Range	Low	High	Low	High	Low	High	Low	High
Power	0 V-150 V	0 V-800 V	0 V-150 V	0 V-800 V	0 V-150 V	0 V-800 V	0 V-150 V	0 V-800 V
Current	0-35 A	0V-8.75 A	0-70 A	0V-17.5 A	0-210 A	0V-52.5 A	0-420 A	0V-105 A
Voltage	0-80 V	0-80 V	0-80 V	0-80 V	0-80 V	0-80 V	0-80 V	0-80 V
Min. Operating Voltage	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V
Min. Operating Current	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V	0.2 V

Programmable D.C. Electronic Load



PEL-3000AE Series

NEW

- * 0-150 V(PEL-3031AE) Min. Operating Voltage(dc): 1 V at 60 A, 0.5 V at 30 A
- * 0-500 V(PEL-3032AE) Min. Operating Voltage(dc): 2.5 V at 15 A, 1.25 V at 7.5 A
- * 7 Operating Modes: CC, CV, CR, CP, CC+CV, CR+CV, CP+CV
- * Normal Sequence Function: Max Steps: 1000 steps/Step Time: 1 ms-999 h 59 min 59 s(3599940 sec); Fast Sequence Function: Max Steps: 1000 steps/Step Time: 25 μs-600 ms
- * Protection: OVP, OCP, OPP, OTP, RVP, UVP
- * Interfaces: LAN/USB/RS-232 & RS-485 (Std.), GPIB(Optional)

Model	PEL-3031AE	PEL-3032AE
Channel	1	1
Range	Low	High
Power	300 W	500 W
Voltage	0-150 V	0-500 V
Current	0-6 A	0-15 A
Min Operating Voltage	1 V at 6 A	2.5 V at 1.5 A
Adjustable Slew Rate	0.25 A/μs	62.5 mA/μs

High Power DC Electronic Load



PEL-5000C Series

- * Maximum Power up to 192 kW
- * Up to 8 units of Master/Slave Parallel Control
- * 5-digit Digital Voltage, Current and Power Meter
- * Large LCD Display
- * Display Voltage Value, Current Value, Watt Value at the Same Time
- * Suitable for Power Factor Regulator(PFC) Testing(600 V, 1200 V Models)
- * Automatically Perform OCP, OPP Test
- * The Power-on State Value Can be Set
- * Constant Current, Constant Resistance, Constant Voltage, Constant Power, Constant Current + Constant Voltage, Constant Power + Constant Voltage, Dynamic and Short Circuit Modes
- * Short Circuit Time Can be Set During Short Circuit Test
- * Over Current, Over Power, Over Temperature Protection and Over Voltage Warning
- * Voltage Polarity Display Can be Set to Positive Value "+" or Negative Value "-"
- * Support Solar Panel MPPT Test
- * Optional Interface: GPIB, RS232, USB, LAN

AC/DC Electronic Load



AEL-5000 Series

- * Turbo Mode (Multiplier Mode) Can Withstand up to 2 Times the Rating Current and Power of the Electronic Load in a Short Period of Time
- * Operating Mode: CC, linear CC, CR, CV, CP and AC Rectifier Loads
- * Measurement Items: Voltage Value(Vrms, Vpeak, Vmax, Vmin), Current Value(Irms, Ipeak, Imax, Imin.), Watt Value, Volt-ampere Value(VA), Frequency Value, Crest Factor, Power Factor, Voltage Total Distortion (V THD, VH), Current Total Distortion(I THD, IH), Etc
- * Eight Units Connected in Parallel up to 180 kW for Single-phase and 540 kW for Three-phase
- * Support Loading and Unloading Angle Control, Loading and Unloading Angle Control Can be set at the Full Range of 0-359 Degrees
- * Support Positive Half Cycle or Negative Half Cycle Load
- * Support SCR/TRIAC Current Phase Modulation Waveform, 90-degree Trailing Edge and Leading Edge

- * Support the Capacitive Load (Inrush Current) when the Power Supply is Turned on and the Transient Current (Surge Current) Test when the Load is Suddenly Connected (Hot Plug-in) During Operation
- * Crest Factor Range: 1.414-5.0
- * Power Factor Range: 0.1-1.0 Leading or Trailing
- * Frequency Range: DC, 40-440 Hz(AEL-5003-480-18.75/AEL-5004-480-28: DC, 40-70 Hz), and 800 Hz and 1 kHz
- * Need to be Customized
- * Optional Control Interfaces: GPIB, RS-232, USB, LAN

High Power DC Electronic Load

CE



PEL-5000G Series

NEW

- * 4 U/6 K High Power Density Design Also for Bench Testing
- * Turbo Mode Function, Which Allows 1.5 Times the Rated Power or Current to be Used Within Two Seconds
- * Turbo Mode can be Used with OCP/OPP/BMS/Short Mode/Surge Mode/Hot Plug-In Testing
- * High Tolerance to Environmental Temperature, with 4 k/5 kW Models not Affected by Environmental Temperature in Power Usage
- * Can set the Power-on Status Value
- * Short Circuit Duration Can be set Within Short Circuit Test
- * Voltage Meter Display Can be Configured as Polarity Positive ("+") or Negative ("-")
- * Optional Interface : GPIB, RS232, USB, LAN
- * Protection function Testing for Battery BMS
- * Protection Against V, I, W, and °C

DC Electronic Load

CE



PEL-500 Series

- * 5-digit Digital Voltage, Current and Power Meter
- * Simultaneous Display of Voltage, Current, and Watts
- * Short-circuit Time Can be Set During Short-circuit Test
- * Automatic Test Function of Overcurrent Protection/Overpower Protection
- * The Battery Discharge Test Function Can Set the Discharge Stop Voltage(Vbatt), Discharge Capacity(AH, WH) and Stop Discharge Time
- * Surge Test Can Simulate Boot Overshoot Current and Transient Current From Hot Plugging
- * Constant Current, Constant Resistance, Constant Voltage, Constant Power and Dynamic Mode
- * Overvoltage, Overcurrent, Overpower, Over Temperature Protection and Reverse Polarity Detection

- * Voltage Polarity Display Can be set to Positive Value"+" or Negative Value"-"
- * Communications Interface: RS232, USB

NOTE



DAQ-9600 Data Acquisition System

LCR-1100/1010 Handheld LCR Meter

GBM-3100H Battery Meter

GPT-15012 DC 12 kV DC/IR Electrical Safety Analyzer

GLC-10000 Leakage Current Tester

GPM-8320/8330 Digital Power Meter

DIGITAL MULTIMETERS/LCR METERS/SAFETY TESTERS/OTHER METERS

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.

For Safety testing, GPT-10000 Series safety analyzer and 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. GPT-9500 Series multi-channel hipot tester is built-in 8 channels scan for multiple testing points requirement. GLC-10000 (Medical / General equipment) & GLC-9000 (General equipment) leakage current testers support all the major leakage current test standards.

In the Digital Meter group, we provide 6 1/2 digit, 5 1/2 digit and 4 3/4 digit (50000 counts) benchtop multimeters, 4 1/2 and lower digit handheld multimeters.

LCR Meter includes two series, LCR-8200(A) Series and LCR-6000 Series. Depending on the model, these series feature frequency of 2 kHz to 50 MHz, and accuracy of 0.05 % to 0.1 %.

In order to provide a complete "one stop shopping" solution, DC milliohm meters, Digital power meter, 80 V/300 V Battery Meter, 1.3 GHz to 2.7 GHz high frequency counter, automatic distortion meter and AC millivolt meters are also provided in this product line of Other application T&M instruments.

PRODUCTS

- | | | | |
|-------------------------------------|------------------------------|---------------------------|------------------------------|
| • Digit Dual Measurement Multimeter | • Handheld LCR Meter | • Leakage Current Tester | • Automatic Distortion Meter |
| • Digital Multimeter | • Electrical Safety Analyzer | • Data Acquisition System | • Intelligent Counter |
| • Mini Clamp Meter | • Electrical Safety Tester | • Digital Power Meter | |
| • LCR Meter | • Multi-Channel Hipot Tester | • D.C. Milli-ohm Meter | |
| | • AC Ground Bond Tester | • Battery Meter | |

AC/DC/IR/GB Electrical Safety Analyzer

CE



GPT-15000 Series

NEW

- * DC 12 kV Output and 500 VA AC Test Capacity (500 VA short circuit current > 200 mA)
- * 7" TFT LCD
- * Comply with IEC 61010-2-034 Design Requirement
- * Controllable Ramp-up & Ramp-down Time
- * Statistics & Analysis Function
- * Sweep Function for DUT Characteristic Analysis
- * Internal Storage and USB Storage Available
- * Barcode Function Available & Setting Data Export/Import

Function	Output Capacity	AC	DC	IR	GB	Continuity	Rear Output
GPT-15012	12 kVdc						
GPT-15001	500 VA	✓	✓			✓	✓
GPT-15002	500 VA	✓	✓			✓	✓
GPT-15003	500 VA	✓	✓	✓		✓	✓
GPT-15004	500 VA	✓	✓	✓	✓	✓	✓

AC/DC/IR/GB Electrical Safety Analyzer

CE



GPT-12000 Series



- * 200 VA AC Test Capacity
- * 7" LCD Color Display
- * Capacitive Load Testing Capability Up to 47 μ F
- * Controllable Ramp Up & Ramp Down Time
- * Statistic Function
- * Testing Time Starting From 0.3 s
- * Provide USB Flash Drive Storage Function
- * Universal Power Input

Function	Output Capacity	AC	DC	IR	GB	Continuity	Rear Output
GPT-12001	200 VA	✓				✓	✓
GPT-12002	200 VA	✓	✓			✓	✓
GPT-12003	200 VA	✓	✓	✓		✓	✓
GPT-12004	200 VA	✓	✓	✓	✓	✓	✓

AC/DC/IR/GB Electrical Safety Tester

CE



GPT-9800/9900 Series

- * 200 VA/500 VA 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 μ A for Measuring Current, 2 V 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



GSB-01/02

- * Model : GSB-01 (8 CH High Voltage Scanner Box), GSB-02 (6 CH High Voltage and 2 CH 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

- * 100 VA 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

Multi-Channel Hipot Tester

CE



GPT-9500 Series

- * 150 VA AC Test Capacity
- * 3 in 1 Tester : AC, DC, IR
- * Built-in 8 Channel Scanner
- * 480 x 272 Color TFT LCD
- * Test Parameter Export/Import Through USB Host
- * Statistics (counter) Function
- * Insulation Resistance Measurement up to 10 GW
- * Open/Short Check (OSC)
- * ARC Detection
- * Multi-language : Traditional/Simplified Chinese, English
- * Interface : RS-232C, USB Host/Device and Signal I/O

AC Ground Bond Tester

CE



GCT-9040

- * AC 40 A Ground Bond Tester
- * Measuring Resistance from 1 m Ω ~ 650 m Ω
- * Connect with the GPT-9800/9900 Series to Become a Multifunctional Test or Simultaneous Test System
- * 240x64 Ice Blue Dot Matrix LCD
- * Function Key for Quick Selecting
- * High Intensity Flash for Caution & Status Indication
- * PWM Switching Amplifier to Enhance the Power Efficiency and Reliable Testing
- * Max. 100 Memory Block for Test Condition Setting
- * Remote Terminal on the Front Panel for "Start" and "Stop" Remote Active
- * Interface : USB Device, Signal I/O and GPIB (optional)

Leakage Current Tester

CE



GLC-10000

NEW

- * Suitable for Medical Electrical & General Electrical of Leakage Current Measurement
- * 7" Touch Panel with Color LCD
- * 12 Different Measurement Network to Simulate the Resistance of Human Body (Including IEC 60601-1:2020 3.2 rd)
- * The Measurement of Maximum Allowable Leakage Current is Up to 50 mA
- * External Terminal for Extension MD Connection
- * MD OUT Terminal can be Connected to an Oscilloscope for Convenient Comparison of Measured Waveforms
- * 30 Sets Memories for Test Parameter; 1000 Sets Memories for Measured Data.
- * Test Parameter Export/Import Function Through USB Host
- * USB Storage for Measurement Data/Screen Capture
- * Various Standard Interfaces: RS-232C, USB Host & Device, LAN, Signal I/O and GPIB (Optional)

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
- * 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

Data Acquisition System

CE



DAQ-9600

NEW



- * Large 4.3" TFT Color Display
- * 3-slot Mainframe with Built-in 6 1/2 Digit DMM
- * Basic 0.0035 % DCV Accuracy
- * 7 Selectable Switch Modules
- * Up to DC 600 V/AC 400 V Voltage Measurement (DAQ-909 Module)
- * Up to 450 Channel/s Scan Rate
- * Up to 100 kilo Points Internal Memory
- * Measures and Converts 14 Different Input Signals: Temperature with Thermocouple, RTDs and Thermistor; DC/AC Volts; 2- and 4-wire Resistance; Frequency and Period; DC/AC Current and Capacitance; Direct Strain and Bridge Strain
- * Command Compatible with the DAQ970A
- * USB Storage Supports to Copy/Log Data in Standalone Operation
- * Interface: Digit I/O, LAN, USB Host/Device and Mini GPIB (Optional)
- * Free PC Software DAQ-Data Logger, Allows Easy Configuration and Control of Tests

DAQ MODULES SPECIFICATIONS

Module Description	Type	Range (DC/AC)	Max. Input	Resolution	Accuracy	Comments
DAQ-900 20-bit Multiplexer	2-wire auto-zero (4-wire selectable)	450 V	100 V	10 bits	± 4 µV	Built-in auto position reference
DAQ-901 20-bit Multiplexer + 2 ch. current	2-wire auto-zero (4-wire selectable)	80 V	500 mV	10 bits	± 4 µV	Built-in auto position reference 2 additional current channels (20 mA)
DAQ-902 40-bit Single Ended Max	1-wire auto-zero (2-wire selectable)	80 V	500 mV	10 bits	± 1 µV	No four-wire measurements
DAQ-904 4 x 8 Matrix	2-wire auto-zero	500 V	100 mV	± 1 µV		
DAQ-907 Multifunction Module	10 bits of digital input and output	42 V	100 mV			Open-drain
	100 kHz isolation input	42 V	100 mV			Input threshold selectable
	Two 18-bit analog outputs	± 10 V				Max. 40 mA load output per frame
DAQ-908 20-bit Analog General Purpose Switch	SPST / form C	500 V		± 4 µV		
DAQ-909 8 ch. HV Multiplexer + 2 ch. current	2-wire auto-zero (4-wire selectable)	80 V	500 V	10 bits	± 4 µV	High voltage / high current channels

6 1/2 Digit 2 kV DC Voltmeter

CE



GVM-9102

NEW

- * 6 1/2 Digit Display : 2,399,999 Counts Max.
- * 4.3 TFT Graphic LCD
- * DC Voltage Measurement up to 2400 V
- * DCV Basic Accuracy : 0.01 %
- * The Fastest Sampling Rate : 10 k Readings/Sec
- * USB Storage Function Available
- * Graphic Display Capability, Providing Histogram, Bar Meter and Trend Chart
- * Standard Interfaces : Digital I/O, RS-232C, USB Host/Device, LAN
- * Option Interface : GPIB

6 1/2 Digit Dual Measurement Multimeter

CE



GDM-906X Series

NEW

- * 6 1/2 Digit Display: 1,200,000 Counts
- * 4.3" TFT Graphic LCD
- * DCV Basic Accuracy: 0.0035% (GDM-9061) / 0.0075% (GDM-9060)
- * 12 Measurement Functions: DCV, ACV, DCI, ACI, 2-wire and 4-wire Resistance, Frequency, Period, Diode, Continuity, Temperature and Capacitance
- * Sampling Rate up to 10 k SPS (GDM-9061)
- * Dual Measurements to Perform Two Selected Measurement Simultaneously
- * Offer Graphical Capabilities Including Histogram, Bar Meter and Trend
- * Temperature Measurement Support RTD, Thermistor as well as Thermocouple
- * Standard Interface: USB Host/Device, RS-232C, LAN, Digital I/O
- * Optional Interface: GPIB

5 1/2 Digit Dual Measurement Multimeter

CE



GDM-9052

NEW

- * 5 1/2 Digit Display: 239,999 Counts Max.
- * 4.3 TFT Graphic LCD & DCV Basic Accuracy: 0.012 %
- * A. I. Measurement Offers Automatic Identification and Measurement for Voltage, Resistance, Diode and Continuity Tests Without the Need for Manual Selection
- * 12 Different Measurement Functions: AC/DC Voltage, AC/DC Current, 2-wire/4-wire Resistance, Frequency, Period, Diode, Continuity, Capacitance and Temperature
- * True RMS (AC, AC+DC) Measurements
- * Dual Measurement Function to Providing Two Selected Measurement Simultaneously
- * Many Math Functions: Max./Min., REL/REL#, Compare, Hold, dB, dBm, MX+B, %, 1/X
- * Digital I/O Provides Dual Mode (Standard Compare and User Definition Modes)
- * Standard Interfaces: RS-232C and USB Device (Support USB CDC and USBTMC Modes)

50000 Counts Dual Measurement Multimeter

CE



GDM-9041/9042

NEW

- * 50,000 Counts
- * 4.3 TFT Graphic LCD
- * DCV Basic Accuracy: 0.02 %
- * A. I. Measurement Offers Automatic Identification and Measurement for Voltage, Resistance, Diode and Continuity Tests Without the Need for Manual Selection
- * 11 Measurement Functions
- * Max./Min., REL, MX+B, 1/X, Ref %, Compare, Hold, dB, dBm
- * Standard Interfaces: USB Device (support USB CDC & USBTMC)
- * Temperature Measurement Function (GDM-9042 only)
- * USB Storage for Data Collection (GDM-9042 only)
- * Optional Interface: GPIB (factory install for GDM-9042 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 Buzzer, 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 50 kHz
- * AC True RMS or AC + DC True RMS

Battery Meter

CE



GBM-3100H/3300/3080

NEW

- * 3.5" TFT LCD (320x240)
- * Measurement Items: DC Voltage and AC Resistance
- * Voltage measurement: 1000 V (GBM-3100H) / 300 V (GBM-3300) / 80 V (GBM-3080)
- * Resistance measurement: 0 mΩ - 3.2 kΩ (max.)
- * Basic Accuracy For Voltage Measurement: 0.01 %
- * Basic Accuracy For Resistance Measurement: 0.5 %
- * Measurement Resolution up to 0.1 µΩ and 10 µV, Suitable For Single-cell Measurement
- * Independent Go/NoGo Determination Function For Voltage and Resistance Respectively
- * The Judgment Mechanism of Test Lead (Probe) Disconnect/Contact Failure is to Ensure The Measurement Reliability
- * Standard Interfaces: USB Host/Device, RS-232C and Handler

Hand-Held Digital Multimeter

CE



GDM-541/533/532 (Auto/Manual Range)
GDM-531 (Manual Range)

- * 22000 Counts Auto/Manual Ranging (GDM-541)
- * 6000 Counts Auto/Manual Ranging (GDM-533)
- * 9999 Counts Auto/Manual Ranging (GDM-532)
- * 6000 Counts Manual Ranging (GDM-531)
- * Current Measurement up to 20A (GDM-541/533)
- * Temperature Measurement (GDM-533/532)
- * Audible / Visual Alarm when Overload (GDM-541/533/531)
- * True RMS (GDM-541/533/532)
- * USB interface (GDM-541/533)

Digital Power Meter	Digital Power Meter	Digital Power Meter
 GPM-8320/8330; GPM-8320-60A/8330-60A <i>NEW</i> * 5" TFT LCD * Voltage/Current Meter Test Freq. Bandwidth: DC, 0.1 Hz to 100 kHz * Waveform Display: V (Voltage), I (Current), P (Wattage) * Distorted wave Current/Voltage Measurement: Full Range for CF = 3, and Half Range for CF = 6 (or 6 A) * Meeting IEC 61000-4-7 Harmonic Measurement (50/60 Hz) * Wiring Selecting Button (1P3W, 3P3W, 3P4W, 3V3A) * Harmonic Measurement & Analysis up to 50 Orders * Auto Ranging Function for Integration Mode * Screen Capture Through USB Host * Provide External Current Sensor Input (EXT1/EXT2) * Standard Interface: RS-232C, USB Device/Host, LAN * Optional Interface: GPM-DA12-GPIB+Digital I/O (Factory Installed Only)	 GPM-8310 * 5" TFT LCD * DC, 0.1 Hz to 100 kHz Voltage/Current Test Bandwidth * Two Numerical Display Modes * General Mode: Displays 2 Main Test Items+8 Secondary Test Items * Simple Mode: Displays the Test Values of 4 Main Test Items * Waveform Display: V (voltage), I (current), P (power) * Meeting the IEC 61000-4-7 Harmonics Measurement Requirements (50/60 Hz) * 50th Order of Harmonic Measurement and Analysis * Integration Function Supports Automatic Level-changing * External Current Sensor Input Terminals (EXT1/EXT2) * Standard Interfaces: RS-232C, USB Device/Host, LAN, GPIB * Optional Interface: Digital I/O (DA4)	 GPM-8213 * 4" TFT LCD * Basic Accuracy: +/- (0.1% of reading + 0.1% of range) * Two Data Display Modes * Met the Requirement of IEC 62301 Power Measurement * Current/Voltage Measurements Reach CF = 3 for Distorted Wave and CF = 6 for Half Range * Total Harmonic Distortion Measurement * W-h Power vs Time Integration Function * Front Panel Test Terminal * Standard Interfaces: RS-232C, USB Device, LAN
High Frequency LCR Meter	Precision LCR Meter	Handheld LCR Meter
 LCR-8200(A) Series * Wide Test Frequency: - LCR-8200A: DC, 10 Hz to 50/30/20/10/5 MHz - LCR-8200: DC, 10 Hz to 30/20/10/5/1 MHz * 7" LCD color Display & 0.08% Basic Accuracy * Two Curves Sweep Mode * Equivalent Circuit Model Analysis (LCR-8200A only) * Internal DC Bias Voltage ± 12 V * USB Storage & ALC Function Available * Standard Interfaces: RS-232C, USB Host/Device, LAN, GPIB and Handler * Universal Power Input	 LCR-6000 Series * 3.5" Color LCD, 5 Models (10 Hz to 2/20/100/200/300 kHz) * Consecutive Test Frequency & Basic Accuracy: 0.05% * Measuring Speed up to 25 ms(Max.) * Full Frequency Range or Spot OPEN/SHORT * 16 Major/Secondary Parameter Measurement Combinations and Two Additional Monitoring Parameters (Maximum Four Different Parameters Can be Shown Simultaneously) * DCR Measurement and Internal D.C. Bias Voltage (± 2.5 V) * PASS/FAIL Judgment, Auto Level Control (ALC) Function * BIN Function Provides 9BIN and 1AUX, Totally 10 BIN * 10 Steps Listed Tests to Select Different Frequency, Voltage and Current Criteria * Standard Interface: RS-232C, Handler and USB Storage	 LCR-1100/1010 <i>NEW</i> * 2.8" TFT Touch LCD * 50,000 Counts Resolution on Primary and Secondary Display * 0.2 % Basic Accuracy * Six or Eight Selectable Test Frequencies Depends on Model * 15 Kinds Measurement Combinations Available * Test Level Selectable: AC 0.3 V/0.7 V/1 Vrms and DC +/- 1 V * Selectable Measurement Speed: Fast 10 Times/s, Slow 2.5 Times/s * Auto LCZ Mode for Automatic Component Type Identification and Measurement * Data Hold * USB-HID/USB-VCOM Interfaces for Remote Communication * Software for Data logging is Available
D.C. Milliohm Meter	A.C. Millivolt Meter	Intelligent Counter
 GOM-804/805 * 50000 Counts Display * TFT 320x240 Color LCD * Fast Measurement Rate up to 60 sample/s * High Accuracy 0.05% * Four-Terminal Measurement * Temperature Compensation (TC) Measurement * Diode Test * Measurement Delay Function * Drive Mode: DC+, DC-, Pulsed, PWM, Zero (GOM-805 only) * Standard Interface: Handler (D-sub 25P), RS22, USB Device, GPIB (GOM-805 Std./GOM-804 Opt.)	 GVT-427B (2 CH)/GVT-417B (1 CH) * 300 μV Full Scale Sensitivity * Measures Frequency From 10 Hz ~ 1 MHz * Measures From -70 dB ~ +40 dB in 12 Ranges * Dual Channel (GVT-427B) * CE Approved (GVT-417B)	 GFC-8131H * 0.01 Hz to 1.3 GHz Frequency Range * 10mVrms High Sensitivity * Frequency and Period Measurement * 100 nHz Resolution for 1 Hz * High Resolution at Both High and Low Frequency * Variable Trigger Level Control



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>

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