



GSP-830 (9kHz ~ 3GHz)

NEW

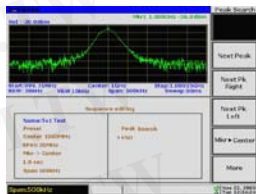


FEATURES

- * Low Noise Floor (-117dBm @1GHz, 3k RBW)
- * Sequence Programming Functions
- * ACPR, OCBW, Channel Power, N-dB, Phcese Jitter Measurements
- * Pass/Fail Test with Limit Line Editing
- * 5 Markers with Δ Marker, Peak Functions ; 10Markers with All Peaks Function
- * Split Windows Allow Separate Settings
- * AC/DC/Battery Multi-Mode Power Operation
- * USB/RS232/GPIB(Optional) Interface
- * Direct VGA Output
- * 6.4" TFT Color LCD, Resolution: 640 x 480
- * Compact Size, 330(W) x170 (H) x 340 (D)mm
- * Light Weight of 6kg Without Options
- * Optional Tracking Generator
- * Optional Preamplifier



Autoset
Signal is automatically measured and located at the display center with default or specified settings.



Sequence
Front panel operations can be automated with built-in Sequence programming functions.

GKT-006 EMI Probe Kit Set

- ADP-01 Test Lead: BNC(P/M)~BNC(P/M) RF Cable x 1
 - ADP-02 Test Lead: SMA(P/M)~SMA(P/M) RF Cable x 1
 - ANT-01
 - ANT-02
 - ANT-03
 - PR-03
- For:GSP-810/827/830



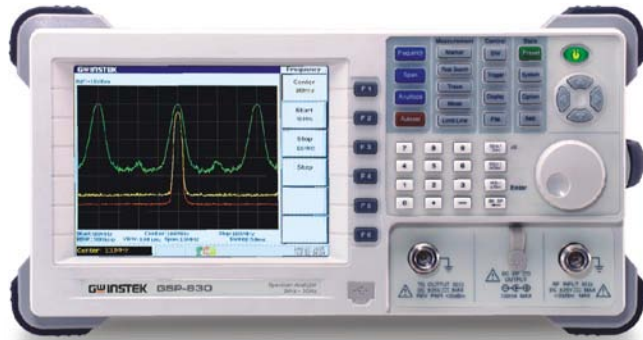
The newly announced 3GHz Spectrum Analyzer, GSP-830, inherits advantages of high performance, low cost, easy to use and varied portability. With GW Instek state-of-the-art design, GSP-830's outstanding noise floor level, -152dBm/Hz and -172dBm/Hz with GAP-801/802 preamplifier, presents extreme sensitivity for picking up weak signals. Thru Auto Sequence mode, professionals can define their own macros in 10 Sequence sets while additional Pause, Repeat or Single run mode can be selected for different applications. Further advanced features, as Auto Set, Split window, Power measurements, Pass/Fail, all make GSP-830 an ideal solution when it comes to spectrum analysis. The vast and advanced interfaces, as USB host/device, RS-232C, VGA, and GPIB (optional), make print-out, remote control and monitoring, as well as data transactions possible.

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

SPECIFICATIONS

FREQUENCY	
Frequency Range	9kHz ~ 3GHz
Aging Rate	± 10 ppm, 0-50°C, 5ppm/yr
Span Range	2kHz ~ 3GHz in 1-2-5 sequence, full span, zero span
Phase Noise	-80dBc/Hz @1GHz 20kHz offset typical
Sweep Time Range	50ms ~ 25.6s
RESOLUTION BANDWIDTH	
RBW Range	3kHz, 30kHz, 300kHz, 4MHz
RBW Accuracy	15%
Video Bandwidth Range	10Hz ~ 1MHz in 1-3 steps
AMPLITUDE	
Measurement Range	-103dBm ~ +20dBm, 1MHz ~ 15MHz, Ref.Level@-30dBm -117dBm ~ +20dBm, 15MHz ~ 1000MHz, Ref.Level \geq -110dBm -114dBm ~ +20dBm, 1000MHz ~ 3000MHz, Ref.Level \geq -110dBm (Span=50kHz, RBW=3kHz)
Overload Protection	Max. +30dBm, 25VDC
Reference Level Range	-110dBm ~ +20dBm
Accuracy	± 1 dB @100MHz
Frequency Flatness	± 1 dB
Display Range Linearity	± 1 dB over 70dB
DYNAMIC RANGE	
Average Noise Floor	<-135 ± 1 dBm/Hz, 1MHz ~ 15MHz, Ref. Level@ -30dBm <-149 dBm/Hz, typical -152dBm/Hz. 15MHz ~ 1000MHz, Ref. Level \geq -110dBm <-146 dBm/Hz, typical -149dBm/Hz, 1000MHz ~ 3000MHz, Ref. Level \geq -110dBm
Third Inter-Modulation	< -70dBc RF Input @ -40dBm, Ref. Level @-30dBm
Harmonic Distortion	< -60dBc RF Input <-40dBm, Ref. level @-30dBm
Non-Harmonic Spurious	< -93dBm, 1MHz ~15MHz, Ref. level -30dBm <-107dBm, 15MHz ~ 1000MHz, Ref. level -110dBm <-104dBm, 1000MHz~3000MHz, Ref. level -110dBm (Span=50kHz, RBW=3kHz)
GENERAL	
Display	640 x 480 high resolution TFT color LCD
Split Windows	Active Window : Upper, Lower or Alternate (two simultaneously sweeping windows)
Markers	10 Markers for peaks; 5 normal-delta marker pairs Functions : Delta, To Peak, To Minimum, Peak track, Peak Table, Peak Sort
Trace Detection	3 traces with Peak, Maximum hold, Freeze, Average, Trace math
Power Measurement	ACPR, OCBW, Channel power, N dB BW and Phase jitter
Autoset Function	Auto tuning the measurement result for observation
Trigger	Conditions : Video, External(Positive-going + 5V-TTL ext. Signal) Modes : Normal, Single, Continuous
Sequence	Automated test by user-defined macros without any remote controller, 10 Sequential macro sets and 10 macros per each set, Variable delays and wait-to-go facilitate automated measurement, Do-Sequence links and nests different sequence sets.
CONNECTORS	
RF-Input	Type: N female, 50 Ω nominal RF input VSWR: <2:1 @ 0dBm Reference Level
External Reference	Type: BNC female,
Clock Input	1M, 1.544M, 2.048M, 5M, 10M, 10.24M, 13M, 15.36M, 15.4M, 19.2MHz
Reference Clock Output	Type: BNC female, 10MHz
DC Input (DC Power Operation)	Jack: 5.5mm, 12V
DC Output (for GAP-801)	Type: SMB male, outputs +9V/100mA Max.
INTERFACE	
RS-232C	Sub-D 9 pins female
USB Connector	USB Host/Device fully speed supported
VGA Output	Front panel : Type A receptacle for USB flash drives
Option : GPIB Interface	Fully programmable with IEEE 488.2 compliance
POWER SOURCE	
AC 100 ~ 240V, 50/60Hz	
DIMENSIONS & WEIGHT	
330(W) x 170(H) x 340(D) mm, Approx. 6kg	

Note: Need to Collocate the Optional Accessories.



GSP-830

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Rear Panel



ORDERING INFORMATION

GSP-830 3GHz Spectrum Analyzer
 ACCESSORIES :
 User manual x1 , Power cord x1, USB cable (Type A plug to type mini-B plug) x 1

OPTION

Opt. 01 Tracking Generator	Frequency Range 9kHz ~ 3GHz Amplitude Range -50dBm ~ 0dBm Amplitude Accuracy ±1dB@100MHz, 0dBm Amplitude Flatness ±1dB@0dBm	Harmonics <30dBc typical Reverse Power +30dBm Impedance Type: N female, 50Ω nominal RF Output VSWR < 2 : 1
Opt. 02 Battery pack	11.1V Li-Ion battery pack x 2	
Opt. 03 ±1ppm Stability	±1ppm , 0 ~ 50°C, ±1ppm/yr	
Opt. 04 300Hz RBW	RBW 300Hz, 3dB bandwidth ; RBW accuracy : 20%	
Opt. 05 9kHz & 120kHz RBW(*)	RBW selections : 9kHz and 120kHz, 6dB bandwidth ; RBW accuracy : 15%	
Opt. 06 10kHz & 100kHz RBW(*)	RBW selections : 10kHz and 100kHz, 3dB bandwidth ; RBW accuracy : 15%	
Opt. 07 AM/FM Demodulator & 10kHz & 100kHz RBW(*)	Demodulation : AM , FM ; Output : internal speaker, 3.5mm stereo jack wired for mono operation RBW selections : 10kHz and 100kHz, 3dB bandwidth ; RBW accuracy : 15%	
Opt. 08 GPIB Interface	IEEE 488 bus	

NOTE: 1. (*) Only one option can be selected between Opt. 05,06,07 2. All options are factory-installed except opt.02.

OPTIONAL ACCESSORIES

ATA-001 BNC Antenna (An additional ADP-001 is needed for fitting GSP spectrum analyzers)

GAP-801 Preamplifier
 Preamplifier with 10dB(typical) 9kHz ~ 6GHz

GAP-802 Preamplifier
 Preamplifier with 20dB(typical) 9kHz ~ 3GHz

RLB-001 Return Loss Bridge
 RLB Frequency Range 10MHz ~ 1GHz

GKT-001 General Kit set
 ADP-002: adaptor, SMA(J/F) ~ N(P/M) x 2
 ATN-100: 10dB attenuator, N(J/F) ~ N(P/M) x 1
 GTL-303: RF cable assembly(SMA(P/M),RD316,600mm)x2
 GSC-002: Kit box x 1

GKT-002 CATV Kit set
 ADP-001: adaptor, BNC(J/F) ~ N(P/M) x 2
 ADP-101: adaptor,BNC(J/F)75Ω~BNC(P/M)50Ω x 2
 GTL-304: RF cable assembly(RG223,N(P/M)-N(J/F),300mm)x2
 GSC-003: Kit box x 1

GKT-003 RLB Kit set
 GAK-001: termination 50Ω, N(P/M) x 1
 GAK-002: Cap with chain, N(P/M) x 1
 GTL-302: RF cable assembly(RG223,N(P/M),300mm)x2
 GSC-004: Kit box x 1

GKT-006 EMI Probe Kit set
 ANT-01: 6cm Loop, H-Field Probe x 1
 ANT-02: 3cm Loop, H-Field Probe x 1
 ANT-03 6mm Stub tip, E- Field Probe x 1
 PR-03: Touch Passive Probe x 1
 Test Lead: BNC(P/M)~BNC(P/M) RF Cable x 1
 Test Lead: SMA(P/M)~SMA(P/M) RF Cable x 1
 ADP-01: N(P/M)~BNC(J/F) Adapter x 1
 ADP-02: N(P/M)~SMA(J/F) Adapter x 1

GRA-404 Rack Adapter Panel
 Rack Mounting (19", 4U)

GSC-001 Soft Carrying Case

GTL-301 RF Cable
 RG 223 N(P/M), 1000mm

GTL-401 DC Power Cord
 DC power cord with DC Jack and lighter plug,Current 5A

GRA-404 Rack Adapter Panel

For : GSP-827/830, Rack Mounting (19", 4U)



GSC-001 Soft Carrying Case

For : GSP-827/830



GKT-001 General Kit Set

ADP-002
 ATN-100
 GTL-303
 GSC-002
 For:GSP-810/827/830



GKT-002 CATV Kit Set

ADP-001
 ADP-101
 GTL-304
 GSC-003
 For:GSP-810/827/830



GKT-003 RLB Kit Set

GAK-001
 GAK-002
 GTL-302
 GSC-004
 For:GSP-810/827/830



GAP-801/802 Preamplifier

GAP-801 Preamplifier with 10dB
 (Typical 9kHz ~ 6GHz)
 For: GSP-830

GAP-802 Preamplifier with 20dB
 (Typical 9kHz ~ 3GHz)
 For: GSP-830

