1.8 GHz SPECTRUM ANALYZER



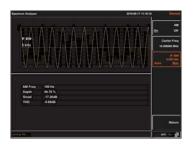
GSP-818 is a new basic spectrum analyzer, which supports a frequency range of 1.8 GHz and provides testing requirements for RF products during the development/production phases. GSP-818 has a built-in 20dB amplifier and provides an adjustable range of resolution bandwidth (RBW) from 10Hz to 3MHz. In addition, it has the AM/FM signal demodulation function and the ACPR/OCBW/CHPW test function to meet the requirements of general RF signal measurement.

To achieve clearer signal observation, GSP-818 utilizes a 10.4" large screen with SVGA (800 x 600) resolution. Pertaining to the communications interface, GSP-818 provides both USB and LAN interfaces. Via the USB Host, users can quickly retrieve the files saved after measurements. The USB Device and LAN interface allow users to control through the dedicated PC software or to use the required program designed by the corresponding commands.

GSP-818 also offers two options: Tracking Generator and EMI Filter & Detector. It is different from the previous models. If customers require options, there is no need to send the equipment back. Customers only need to purchase the corresponding software license (Software Keycode) to activate the purchased option, which greatly improves the operational efficiency.



Zoom In/Out



AM Demodulation



ACPR



FM Demodulation

GSP-818

FEATURES

- Frequency Range: 9kHz ~ 1.8GHz
- RBW: 10Hz ~ 3MHz, 10Hz ~ 500kHz in 1-10 steps
- Sensitivity:-148dBm/Hz Typical@PreAmp On
- Built-in AM/FM Demodulation
- Bandwidth Zoom Function
- Measurement Function: ACPR/OCBW/ CHPW, NdB Bandwidth, Freq. Counter, Noise Marker, Limit Line
- Built-in 20dB Preamplifier Standard
- Interface: Lan, USB
- Screen: 10.4" SVGA Output (800x600)
- Options: Tracking Generator, EMI Filter & Detector (via software keycode)



Front



Rear Panel

APPLICATIONS

- Checking and Analysis of Spectrum Characteristics
- Analyze AM and FM Signal Characteristics
- Monitor the Signal Uploaded by SNG Vehicle
- For a Compact Test System
- Measuring the Frequency Response of RF Cables, Attenuators, Filters and Amplifiers



GSP-818

SPECIFICATIONS								
SPECIFICATIONS FREQUENCY								
Frequency Span	Range	9 kHz to 1.8 GHz						
	Resolution	1 Hz						
Frequency Span	Span Range Span Uncertainty	0 Hz, 100 Hz to max. frequency of instrument						
Internal Frequency Reference								
	Reference Frequency Accuracy							
	Temperature Stability Aging rate	< 2.5ppm (15°C to 35 < 1ppm/year	5°C)					
SSB Phase Noise	10 kHz	< -82 dBc/Hz						
	100 kHz	< -98 dBc/Hz(Typical)						
Bandwidth	1 MHz Resolution Bandwidth	< -110 dBc/Hz(Typica 10Hz to 500kHz (1-10		ens by sequence) 1MHz 3	MHz			
Bandwidth	Resolution Bandwidth	10Hz to 500kHz (1-10 steps by sequence), 1MHz, 3MHz (Option) 200 Hz, 9 kHz, 120 kHz, 1 MHZ for EMI(-6dB)						
	RBW Uncertainty	< 5%, typical (RBW≤1 MHz)						
	Resolution Filter Shape Factor (60dB:3dB) Video Bandwidth (VBW)	< 5:1 typical (digital and close to Gaussian shape) 10 Hz to 3 MHz						
AMPLITUDE	video Baldwidtli(VBW)							
Amplitude and Level	Amplitude Measurement Range	DANL to +10 dBm, 100 kHz to 1 MHz, Preamp Off; DANL to +20 dBm, 1 MHz to1.8 GHz, Preamp Off						
	Reference Level	-80 dBm to +30 dBm,						
	Preamp Input Attenuation	20 dB, nominal, 9 kH 0 to 40 dB, in 1 dB sto		0 I.8 GHz				
	Max Input DC Current	50 VDC						
Display Average Noise Level	Max Continuous Power		30dBm, average continuous power Preamp Off Preamp On					
	1 MHz ~ 10 MHz		mp	Off	Preamp On			
	10 MHz ~ 10 MHz 10 MHz ~ 1 GHz	-130 dBm (Typical) -130 dBm (Typical)			-150 dBm (Typical) -150 dBm (Typical)			
	1 GHz ~ 1.8 GHz				-148 dBm (Typical)			
Frequency Response	Preamp Off(fc≥100 kHz)	±0.8 dB:±0.4 dB, Typi						
Difference and Accuracy	Preamp On(fc≥100 MHz) RBW Switch Difference	±0.9 dB:±0.5 dB, Typi Reference: 10 kHz RB		at 50 MHZ: Log resolution-	=+0.2 dB. Lin resolution=+0.01 Nominal			
erence and Accuracy	Input Attenuation Difference		nce: 10 kHz RBW at 50 MHZ; Log resolution=±0.2 dB, Lin resolution=±0.01 Nominal 10°C, fc=50 MHz, Preamplifier Off, 10 dB RF attenuation, input signal 0~40 dB ±0.5 dB					
	Absolute Amplitude Uncertainty	20°C to 30°C, fc=50 N	ЛΗΖ		kHz, VBW=10 kHz, peak detector, 10 dB RF attenuation,			
	Preamp Off	95% confidence level ±0.4 dB, input signal level -20 dBm						
	Preamp On	±0.5 dB, input signal level -20 dBm						
	Uncertainty	Input signal range 0 dBm to -50 dBm; ±1.5 dB						
Distortion and Spurious	VSWR Second Harmonic Distortion	Input 10 dB RF attenuation, 1MHz to 1.8GHz; <1.5, Nominal fc≥50 MHz, Preamp off, signal input -20 dBm, 0 dB RF attenuation, 20°C to 30°C; -65 dBc						
Response	Third-order Intermodulation				uency interval 100 kHz, input attenuation 0 dB,			
	1 dB Gain Compression	preamplifier off, 20°C			to 30°C : >+2 dBm Nominal			
	Residual Response	fc≥50 MHz, 0 dB RF attenuation, Preamp off , 20°C to 30°C ; >+2 dBm, Nominal connect 50 Ω load at input port, 0 dB input attenuation, 20°C to 30°C; <-85 dBm, from 100 kHz to 1.5 C <-80 dBm, from 1.5 GHz to 1.8 GHz -30 dBm signal at input mixer, 20°C to 30°C; <-60 dBc						
SWEEP	Input Related Spurious	-30 dBm signal at inp	JULI	Tixer, 20 C to 30 C; <-00 dB				
	Time None-zero Span	10 ms to 3000 s						
	Zero Span Span Mode	1 ms to 3000 s Continue, Single						
TRACKING GENERATOR (OF		continue, onigie						
Tracking Generator Output	Cenerator Output Frequency Range 100 kHz to 1.8GHz							
	Output Power Level Range Output Power Level Resolution	-30 dBm to 0 dBm						
	Output Flatness	± 3 dB						
DEMODILILATION	Maximum Safe Reverse Level	Average total power: 30 dBm, DC : ±50 VDC						
Audio Demodulation	DEMODULATION Audio Demodulation Frequency Range 100 kHz to 1.8 GHz							
	Demodulation Type	FM/AM/USB/LSB						
AM Measurement	Frequency Range Modulation Rate	10MHz to 1.8GHz	0100kHz ominal(Modulation rate < 1 kHz); <0.1% modulation rate, nominal(Modulation rate≥1 kHz) 5%					
	Modulation Rate Accuracy							
	Depth	5% to 95%						
FM Measurement	Depth Accuracy Frequency Range	±4%, nominal 10 MHz to 1.8 GHz						
	Modulation Rate	20 Hz to 100 kHz						
	Modulation Rate Accuracy	1Hz, nominal(Modulation rate < 1 kHz); <0.1% modulation rate, nominal(Modulation rate≥1 kHz)						
	Deviation Deviation Accuracy	20 Hz to 200 kHz ±4%, nominal						
FREQUENCY COUNTER	- critation Accuracy	,, noninai						
	Counter Resolution	1Hz, 10Hz, 100Hz, 1						
INPUTS AND OUTPUTS	Accuracy	±(Trequency Indicatio	n x	frequency reference accura	cy+ counter resolution			
RF Input	Impedance	50 Ω, Typical						
-	Connector	N Type Female						
Tracking Generator Output	Impedance	50 Ω, Typical						
Reference Input	Connector Connector	N Type Female BNC Female						
-	10MHz Reference Amplitude	0 dBm to +10 dBm						
USB	USB Host	A Plug, USB 2.0 (Host End)						
VGA	USB Device Connector	B Plug, 2.0 Version 15-pins, D-SUB(female)						
	Resolution	800*600, 60 Hz	.,					
GENERAL SPECIFICATION								
Display Remote Control	Type USB							
	LAN							
Mass Memory	Internal Memory Operating Temperature							
Temperature	Storage Temperature	-20°C to 70°C						
Appearance	ppearance Dimensions & Weight 421mm(W) × 221mm(H) × 115mm(D)/Approx. 5.0 kg(without package)							
Specifications subject to change without notice. GSP-818GD1DH								
ORDERING INFORMAT	ΓΙΟΝ			OPTIONAL ASSESSOR	IES			
GSP-818 1.8 GHz Spectrum Analyzer				Opt.01 Tracking Generation	ator (via software keycode)			
ACCESSORIES					11 Detector (via software keycode)			
AGCLOSONILS								

Power cord, Calibration Certificate CD (including quick start guide, user manual, programming manual, PC software)

	Specifications subject to change without notice.	GSP-818GDIDE			
OPTION	NAL ASSESSORIES				
	Tracking Generator (via software keycode) EMI Filter & EMI Detector (via software keycode)				
FREE DOWNLOAD					
PC Softw	/are				

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