1.8 GHz SPECTRUM ANALYZER



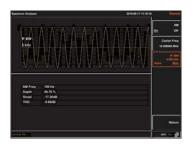
GSP-818 is a new basic spectrum analyzer, which supports a frequency range of 1.8 GHz and provides testing requirements for RF products during the development/production phases. GSP-818 has a built-in 20dB amplifier and provides an adjustable range of resolution bandwidth (RBW) from 10Hz to 3MHz. In 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
- 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

CRECIEICATIONIC						
SPECIFICATIONS FREQUENCY						
Frequency Span	Range	9 kHz to 1.8 GHz				
	Resolution	1 Hz	e e.			
Frequency Span	Span Range Span Uncertainty	0 Hz, 100 Hz to max. ± span/(sweep points	frequency of instrument			
Internal Frequency Reference		10.000000 MHz	-1)			
	Reference Frequency Accuracy	± [(days from last calibrate × freq aging rate) + temperature stability + initial accuracy]				
	Temperature Stability	< 2.5ppm (15°C to 35° < 1ppm/year	°C)			
SSB Phase Noise	Aging rate 10 kHz	< -82 dBc/Hz				
	100 kHz	< -98 dBc/Hz(Typical)				
	1 MHz	< -110 dBc/Hz(Typica				
Bandwidth	Resolution Bandwidth		steps by sequence), 1MHz, 3 Iz, 120 kHz, 1 MHZ for EMI(-			
	RBW Uncertainty	< 5%, typical (RBW≤	-			
	Resolution Filter Shape Factor (60dB:3dB)		nd close to Gaussian shape)			
AMPLITUDE	Video Bandwidth(VBW)	10 Hz to 3 MHz				
Amplitude and Level	Amplitude Measurement Range	DANL to +10 dBm, 10	0 kHz to 1 MHz. Preamp Off:	DANL to +20 dBm, 1 MHz to1.5 GHz, Preamp Off		
	Reference Level	-80 dBm to +30 dBm, 0.01dB by step				
	Preamp Input Attenuation	20 dB, nominal, 9 kHz 0 to 40 dB, in 1 dB ste				
	Max Input DC Current	50 VDC	þ			
Display Average Noise Level	Max Continuous Power	+30dBm, average con				
			np Off	Preamp On		
	1 MHz ~ 10 MHz 10 MHz ~ 1 GHz			-150 dBm (Typical)		
	1 GHz ~ 1.8 GHz	-130 dBm (Typical) -128 dBm (Typical)		-150 dBm (Typical) -148 dBm (Typical)		
Frequency Response	Preamp Off(fc≥100 kHz)	±0.8 dB:±0.4 dB, Typic	al			
D:00	Preamp On(fc≥100 MHz)	±0.9 dB:±0.5 dB, Typic	al			
Difference and Accuracy	RBW Switch Difference Input Attenuation Difference			=±0.2 dB, Lin resolution=±0.01 Nominal attenuation, input signal 0~40 dB ±0.5 dB		
	Absolute Amplitude Uncertainty	20°C to 30°C, fc=50 M		kHz, VBW=10 kHz, peak detector, 10 dB RF attenuation,		
	D	95% confidence level	aval 20 dPm			
	Preamp Off Preamp On	±0.4 dB, input signal l ±0.5 dB, input signal l				
	Uncertainty	Input signal range 0 d	Bm to -50 dBm; ±1.5 dB			
Distantian and Camiana	VSWR		ation, 1MHz to 1.8GHz; <1.5,			
Distortion and Spurious Response	Second Harmonic Distortion Third-order Intermodulation			3 RF attenuation, 20°C to 30°C; -65 dBc uency interval 100 kHz, input attenuation 0 dB,		
hesponse		preamplifier off, 20°C	to 30°C; +10 dBm			
	1 dB Gain Compression Residual Response		attenuation, Preamp off , 20°C	: to 30°C ; >+2 dBm, Nominal ation, 20°C to 30°C; <-85 dBm, from 100 kHz to 1.5 GHz;		
		<-80 dBm, from 1.5 G	Hz to 1.8 GHz			
	Input Related Spurious	-30 dBm signal at inpi	ut mixer, 20°C to 30°C; <-60 dE	3c		
SWEEP	Time None-zero Span	10 ms to 3000 s				
	Zero Span	1 ms to 3000 s				
	Span Mode	Continue, Single				
TRACKING GENERATOR (OF Tracking Generator Output	Frequency Range	100 kHz to 1.8GHz				
hacking Generator Output	Output Power Level Range	-30 dBm to 0 dBm				
	Output Power Level Resolution	1 dB ± 3 dB				
	Output Flatness Maximum Safe Reverse Level		0 dBm, DC : ±50 VDC			
DEMODULATION						
Audio Demodulation	Frequency Range Demodulation Type	100 kHz to 1.8 GHz FM/AM/USB/LSB				
AM Measurement	Frequency Range	10MHz to 1.8GHz				
	Modulation Rate	20Hz to 100kHz				
	Modulation Rate Accuracy Depth	5% to 95% ±4%, nominal 10 MHz to 1.8 GHz 20 Hz to 100 kHz				
	Depth Accuracy					
FM Measurement	Frequency Range					
	Modulation Rate					
	Modulation Rate Accuracy Deviation	20 Hz to 200 kHz	moni rale < 1 kmzj; <0.1% mo	Gulation rate, normal(Woodulation rate≥1 KHZ)		
	Deviation Accuracy	±4%, nominal				
FREQUENCY COUNTER	Country Dr. 1 11					
Counter Resolution Accuracy1Hz, 10Hz, 10Hz, 1kHz ±(frequency indication × frequency reference accuracy+ counter resolution						
INPUTS AND OUTPUTS						
RF Input	Impedance	50 Ω , Typical				
Tracking Generator Output	Connector Impedance	N Type Female 50 Ω , Typical				
contrator output	Connector	N Type Female				
Reference Input	Connector	BNC Female				
USB	10MHz Reference Amplitude USB Host	0 dBm to +10 dBm	End			
	USB Host USB Device	A Plug, USB 2.0 (Host End) B Plug, 2.0 Version				
VGA	Connector	15-pins, D-SUB(femal	e)			
GENERAL SPECIFICATION	Resolution	800*600, 60 Hz				
Display	Туре	10.4 inches, TFT LCD.	800*600 (SVGA), 65536 color	rs		
Remote Control	USB	USB TMC	(····), ····· Joio			
	LAN Internal Memory	10/100Base, RJ-45 256M Bytes				
Mass Marsen		0 °C to 40°C				
Mass Memory Temperature						
Mass Memory Temperature	Operating Temperature Storage Temperature	-20°C to 70°C				
	Operating Temperature		(H) × 115mm(D)/Approx. 5.0	kg(without package)		
Temperature	Operating Temperature Storage Temperature			kg(without package) cations subject to change without notice. GSP-818GD1DH		
Temperature	Operating Temperature Storage Temperature Dimensions & Weight			cations subject to change without notice. GSP-818GD1DH		
Temperature Appearance ORDERING INFORMAT	Operating Temperature Storage Temperature Dimensions & Weight		Specific OPTIONAL ASSESSOR	cations subject to change without notice. GSP-818GD1DH		
Temperature Appearance ORDERING INFORMAT	Operating Temperature Storage Temperature Dimensions & Weight		Specific OPTIONAL ASSESSOR Opt.01 Tracking Gener	cations subject to change without notice. GSP-818GD1DH		

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

	Specifications subject to change without notice.	GSP-818GD1DH
OPTIO	NAL ASSESSORIES	
	Tracking Generator (via software cacatua) EMI Filter & EMI Detector (via software keycode)	
FREE D	OWNLOAD	
PC Softv	vare	

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