

Bench Spectrum Analysers

GW INSTEK



GSP-810

- 150kHz ~ 1GHz.
- Tracking Generator Option.
- Power Meter Option.
- RS-232 Interface Standard.

		GSP-810
Frequency	Frequency Range Aging Rate Span Range Phase Noise Frequency Resolution Frequency Display & Control	150kHz ~ 1GHz ± 10 ppm, 0 ~ 50°C, ± 2ppm/yr Zero, 2kHz ~ 100MHz/div in a 1-2-5 Sequence -77dBc/Hz @ 1GHz 30kHz Offset 1kHz C.F. entry, 40Hz Sweep Resolution at 2kHz/div 6½ Digit Setting, Digital Phase Locked
Resolution Bandwidth	RBW Range & Accuracy Video Bandwidth Range	3kHz, 30kHz, 220kHz, 4MHz at 15% 1.6kHz/90kHz Coupled with RBW
Amplitude	Measurement Range Overload Protection Reference Level Range Amplitude Display Range Amplitude Accuracy Frequency Flatness Amplitude Level Linearity	-100dBm ~ +20dBm +30dBm Continuous, ±25VDC -30dBm ~ +20dBm 75dB ± 1.5dB Typical @ 0dBm, 80MHz ± 1.5dB Over 100MHz, ± 2.5dB Typical Over Entire Band / ± 3dB: 150kHz ~ 10MHz ± 1.5dB Over 70dB
Dynamic Range	Average Noise Floor Third Inter-Modulation Harmonic Distortion Non-Harmonic Spurious	-95dBm @ 30kHz RBW, -100dBm Typical -75dBm: 150kHz ~ 10MHz < -70dBc, @ -40dBm Input, 2 Tones, 2MHz Apart < -45dBc: 150kHz ~ 10MHz < -40dBc, RF Input < Selected Reference < -60dBc Typical Down From Reference Level, Average, 5MHz/div
Display System	Display Device Display Function	CRT Display, 8 x 10 Graticule, 6-inch Waveform Screen LCD Display, 4 line x 20 Character Data Screen Centre Frequency Control, Bandwidth, Reference Level, Span Range, Amplitude
Functions	Marker Modes No. of Markers & Resolution Marker Accuracy Memory Trace Demodulator Internal Calibration Signal Interface	Absolute, Relative, PK to Marker, Marker to Centre 2 Markers, 0.1dB, 1kHz 0.1dB ± Amplitude Accuracy 9 Memories of Save/Recall Maximum Hold, Average (2 ~ 32 Traces), Freeze (Hold) WB FM, 120kHz Deviation, MB FM, 75kHz Deviation, NB FM, 30kHz Deviation, AM Output: Internal Speaker, 3.5mm Stereo Jack, Wired for Mono Operation 80MHz, -30dB RS-232C Standard
General	Power Source Accessories Dimensions Weight	AC: 100V / 120V / 220V / 230V ± 10%, 50 / 60Hz Instruction Manual x 1, Power Cord x 1 310mm (W) x 150mm (H) x 455mm (D) 8.5kg

ORDERING INFORMATION

Option 01 - Tracking Generator

Frequency Range: 150kHz ~ 1GHz
Amplitude Range: 0 ~ 50dBm
Amplitude Resolution: 1dB
Amplitude Accuracy: ± 1dB @ 0dBm, 80MHz
Attenuation Accuracy: ± 1dB @ 50MHz
Amplitude Flatness: ±1dB @ 10MHz/Div, ±1.5dB @ 0dB, Entire Band
Harmonics: < -30dBc (< -25dBc, 150kHz ~ 10MHz)
Reverse Power: < +30dBm
Impedance: 50Ω Nominal
Return Loss: < 10dB (VSWR < 2)
Connector: N Type Female

Option 02 - Power Meter

Frequency Range: 10MHz ~ 2GHz, Usable to 2.7GHz
Power Level Range: -20dBm ~ +23dBm, Usable to +30dBm
Power Level Overload: +40dBm <10% Duty Cycle, <10mS Duration
Return Loss: < 1:1.35 VSWR into 50Ω, < 1:1.25 Typical
Readout Resolution: 0.2mW on 100mW Scale, 2μW on 1mW Scale;
0.1dB on Log Scale
Accuracy: ± (10% rdg ± 1 digit)
Readout: mW or dBm

Option 03 - Remote Control Software

To connect a PC, download the trace and to provide remote control.