



3290 Hand-Held 2.9GHz RF Signal Strength Analyzer

- 100 KHz to 2.9GHz measurement range
- Hand-Held & battery operated
- Integrated 2.9GHz frequency counter
- 125 CH/sec scan rate
- Sensitivity (-117 dBm max)
- Measures & Demodulates Wide & Narrow band FM, AM and SSB Signals
- PLL tuning system for accurate frequency tuning
- 160 total channels can be scanned & displayed
- Includes detachable antenna
- Back-lit LCD display
- Functions are accessible from the menu
- Setup & Display data can be stored in memory for future use
- Works w/ IEEE 802.11 applications, Cell Phones, RF paging systems, Surveillance applications & Indoor repeaters
- Built-in speaker
- RS-232 interface w/software & cable
- Printer output for all graphics



Specifications

Frequency

Freq. Range: 100KHz to 2.9GHz
Freq. Step: 5 KHz to 9995 KHz in multiples of 5 KHz or 6.25 KHz
Reference Oscillator Accuracy: ± 3 PPM
Freq. Marker Accuracy: ± 25 PPM
Freq. Measurements: Narrow Band FM, Wide Band FM, AM and Single side band

Input

Impedance: 50
Max Input Volts: 5V RMS (+27dBm)
Measurement Units: dBmV, dB μ V, dBm
Attenuation: 0dB or -10dB internal; 0dB to 60dB with external Attenuator

Wide Band FM, AM & SSB

Level Measurement Range:
-107dBm to -57dBm (300MHz to 1800MHz)
-107dBm to -67dBm (1MHz to 300MHz and 1800MHz to 2.9GHz)
Resolution: ± 0.5 dB, Accuracy: ± 3 dB
Bandwidth:
Wide band FM: Approx. 180KHz
AM and SSB: Approx. 2.4KHz
BFO Frequency Range: ± 1.5 KHz
Reception Sensitivity: 0 to 6dB V EMF with supplied antenna
Antenna Reception S/N Ratio: N-FM: 10 dB; W-FM: 12 dB

Narrow Band FM

Level Measurement Range:
-117dBm to -67dBm (300MHz to 1800MHz)
-107dBm to -67dBm (1MHz to 300MHz and 1800MHz to 2.9GHz)
Resolution: ± 0.5 dB, Accuracy: ± 3 dB
Bandwidth: 12.5 KHz

Scan Mode

Mode: Manual, Channel (memory scan) and Search scan
Scan Rate: 125Ch/sec

Memory

Data Memory: Stores 10 displays of up to 160 Ch per display
Setup Memory: Stores 10 setups for each scan mode

Display

Display Modes: Spectrum, Bar graph, Frequency counter
Spectrum Display: Displays 160 channels
Bar Graph Displays: Multi channel (2, 5, 10, 20, 40, 80, 160 Bar graphs per display), Single Channel and 2 Channel difference
Sweep Modes: Single, Normal, Free run
Spurious Signals: (internally generated) -35dBc for W-FM
-45dBc for N-FM (typical below full scale signal level)

Frequency Counter

Bandwidth: 9Mhz to 2.9GHz
Resolution: 1Khz
Accuracy: 50PPM ± 1 count
Input Impedance: 50
Max Input Volts: 5V RMS
Response Time: 0.512 sec
Input Sensitivity:
9Mhz to 2060Mhz: 120mV / 20MHz to 1500MHz: 50mV
2Mhz to 2800Mhz: 500mV / 2800 MHz to 2900MHz: 750mV
Data Memory: Stores 10 Readings

Miscellaneous

LCD: 192 x 192 Pixels, Light green
Back Light: LED. Off 5 seconds after the last key depression
Interfaces: RS-232 interface with female 8 pin mini Din connector. Baud Rates of 1200, 2400, 4800 or 9600 BPS are menu selected. Software supplied runs under Windows 95/98/ME/XP/2000
Auto Power Off: 5, 10, 20 or 30 min. after last key depressed.
Audio Output: 120mW into 8 Speaker
Power Requirements: (6) AA NiCd or Alkaline Batteries, 12 volt car adapter or 11V to 16V 500mA Max AC to DC adapter

General Specifications

Operating Temp: 0°C to 40°C
Rel. Humidity: 35% to 85%
Storage Temp: 10 C to 50°C
Size: 9.5"H x 4.0"W x 1.8"D
Weight: 1.4lbs

Supplied Accessories: Manual, (6) 1.5VAA NiCd Batteries, Detachable 9" whip antenna, RS-232 Cable, Carry case, Earphone, Carry strap, Software, Vehicle power adapter, and AC/DC converter.