Hand-Held 2.0/2.9 GHz RF Signal Strength Analyzer

- Hand-Held and battery operated
- 100kHz to 2900MHz measurement range (2060MHz for 3201)
- 125 Ch/sec scan rate (12.5 Ch/sec for 3201)
- Built-in 2.9GHz frequency counter (2GHz for 3201)
- High sensitivity (-117 dBm max)
- Detects Wide band and Narrow band FM, AM and Single Sideband Signals
- Phase lock loop for precise frequency tuning
- RS-232 interface
- Up to 160 channels may be scanned and displayed
- Audio output with built-in speaker
- Detachable antenna included
- Back-lit display
- All functions are menu selected
- Instrument setups & display data may be stored in memory
- Includes software and RS-232 Cable
- Hard copy printer output of spectrum and bar graph displays
- Ideal for IEEE 802.11 applications, Cellular Telephones, RF paging systems, Indoor repeaters, Surveillance applications

3290

SPECIFICATIONS

Frequency
Frequency Range (3201): 100kHz to 2060MHz
Frequency Range (3290): 100kHz to 2900MHz
Frequency Step: 5kHz to 9995kHz in multiples of 5kHz or 6.25kHz
Ref. Oscillator Accuracy: ±3 PPM
Frequency Marker Accuracy: ±25 PPM
Frequency Measurements: Narrow Band FM, Wide Band FM, AM and Single side band

Input
Input Impedance: 50Ω
Maximum Input Volts: 5V RMS (+270dBm)
Measurement Units: dBmV, dBµV, dBm
Attenuation: 0dB or -10dB internal; 0dB to 60dB with external Attenuator

Narrow Band FM
Level Measurement Range (3201):
-117dBm to -67dBm (1MHz to 2060MHz)
Level Measurement Range (3290):
-117dBm to -67dBm (300MHz to 1800MHz)
-107dBm to -67dBm (1MHz to 300MHz and 1800MHz to 2900MHz)
Resolution: ±0.5dB; Accuracy: ±3dB
Bandwidth: 12.5kHz

Wide Band FM, AM & SSB
Level Measurement Range (3201):
-108dBm to -58dBm (10MHz to 2060MHz)
Level Measurement Range (3290):
-107dBm to -57dBm (300MHz to 1800MHz)
-97dBm to -57dBm (10MHz to 300MHz and 1800MHz to 2900MHz)
Resolution: ±0.5dB; Accuracy: ±3dB
Bandwidth: Wide band FM: Approx. 180kHz
AM and SSB: Approx. 2.4kHz
BFO Frequency Range: ±1.5kHz
Reception Sensitivity: 0 to 6dBµV EMF with supplied antenna
Antenna Reception S/N Ratio: N-FM: 10 dB; W-FM: 12 dB

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)

Scan Mode
Manual, Channel (memory scan) and Search scan
Scan Rate (3201): 12.5 Ch./sec.
Scan Rate (3290): 125 Ch./sec.

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

Frequency Counter
Bandwidth (3201): 9MHz to 2060MHz
Bandwidth (3290): 9MHz to 2900MHz
Resolution: 1kHz
Accuracy: 50PPM ±1 count
Input Impedance: 50Ω
Max Input Volts: 5V RMS
Response Time: 0.512 Sec.

Input Sensitivity (3201):
9MHz to 2060MHz: 120mV
20MHz to 1500MHz: 50mV
2MHz to 2060MHz: 500mV
Input Sensitivity (3290):
9MHz to 2060MHz: 120mV
20MHz to 1500MHz: 50mV
2MHz to 2800MHz: 500mV
2800MHz to 2900MHz: 750mV
Data Memory: Stores 10 Readings

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

Gereral Specifications
Operating Temperature: 0°C to 40°C
Relative Humidity: 35% to 85%
Storage Temperature: -10 to 50°C
Size: 9.5" H x 4.0" W x 1.8" D
Weight: 1.4 lbs
Supplied Accessories: Manual, (6) 1.5V AA NiCd Batteries, Detachable 9" whip antenna, RS-232 Cable, Carrying case, Earphone, Carrying strap and Software, Vehicle power adapter, AC/DC converter.

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