# 3290

### Hand-Held 2.9GHz RF Signal Strength Analyzer



99 Washington Street Melrose, MA 02176 Fax 781-665-0780 TestEquipmentDepot.com

- Hand-Held and battery operated
- 100KHz to 2900MHz measurement range
- 125 Ch/sec scan rate
- Built-in 2.9GHz frequency counter
- 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 (includes software and cable)
- 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
- 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

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### SPECIFICATIONS

#### Frequency

Frequency Range: 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 (+27dBm) Measurement Units: dBmV, dBμV, dBm Attenuation: 0dB or -10dB internal; 0dB to 60dB with external Attenuator

#### Narrow Band FM

Level Measurement Range: -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:

-07dBm to -57dBm (300MHz to 1800MHz) -97dBm to -57dBm (100MHz 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

Mode: Manual, Channel (memory scan) and Search scan Scan Rate: 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

#### Input Sensitivity:

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 8Ω Speaker

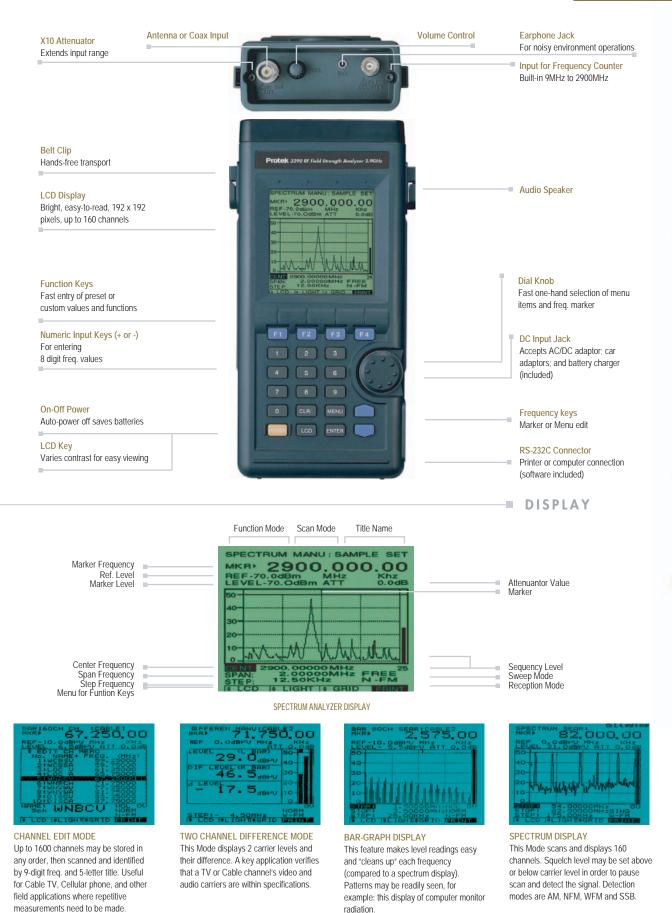
Power Requirements: (6) AA NiCd or Alkaline Batteries, 12 volt car adapter or 11V to 16V 500 mA Max AC to DC adapter

#### **General Specifications**

Operating Temperature: 0°C to 40°C (32 to 104°F) Relative Humidity: 35% to 85% Storage Temperature: -10 to 50°C (14 to 122°F) 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 and Software, Carrying case, Earphone, Carrying strap, Holster

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