Cushman CE-6030

Radio System Analyzer with Tracking Generator

Monitor

- Functions: Frequency error, FM deviation, % AM, Power, SINAD, audio frequency (Lissajou), SSB
- Frequency Range: 0.45 to 999.9999 MHz
- Inputs: 2 BNC connectors: high sensitivity (2 µV) antenna input and a high power input/output for direct connection of transceivers of up to 150W transmitter power
- Sensitivity (Narrow Sensitivity):
  * FM: 2µV (0.6µV typical) for SINAD = 10 dB; Frequency≥ 2.0 MHz
  * AM: 2µV typical for S/N = 10 dB; Frequency≥ 10 MHz
- Selectivity/Squelch
  * Selects IF & audio bandwidths
  * Narrow: 22 kHz & 3 kHz
  * Medium: 22 kHz & 36 kHz
  * Wide: 220 kHz & 36 kHz respectively at 3.0 dB points
- Frequency Error Meter
  * Zero centered meter reads error offset from display frequency
  * Ranges: ±1.5, ±5, ±15 kHz
- FM Deviation
  * FM peak deviation read simultaneously on meter and CRT display
  * Ranges, meter and CRT: 1.5, 5 and 15 kHz peak
- AM Modulation
  * % AM modulation read simultaneously on CRT display and calibrated meter
  * Meter Range: 0 to 100%
- Power Meter Range: 1W to 15W, 10W to 150W
- SINAD Meter Range: 0 to 20dB

Audio Synthesizer

- Frequency Modes Gen: 1 Hz to 19,999.9 Hz

Tracking Generator

- Swept frequency output is exactly equal to input frequency of spectrum monitor
- Frequency Range: 10 MHz to 999.9999 MHz
- Sweep Widths: Fixed - 10 kHz, 100 kHz, 1 MHz per div., and 10-1000 MHz range (for cable fault)
- Output Level: 0.1 µV to 300 mV, continuous

Spectrum Monitor

- Frequency Range: 10 to 1000 MHz
- Dynamic Range: +0 to -115 dB
- RF Attenuator: ≥40 dB in 20 dB steps
- Display Range: 70 dB (10 dB/div.) and 8 dB (1 dB/div)
- Scan Widths: Fixed - 10, 100 kHz/div, 1, 10 MHz/div., and 0-1000 MHz

Oscilloscope

- Frequency Range: DC to 500 kHz
- Horizontal Sweep Rate (Calibrated): 10 msec/div, 1 msec/div, 100 µsec/div, 10 µsec/div, ±5%

Signal Generator

- Frequency Range: 0.45 to 999.9999 MHz
- Level - Range: 0.1 µV to 300 mV rms, continuous
- Modulation: FM/AM/CW

General

- Approx. Weight: 44 lbs
- Dimensions: 8 1/4" H x 15" W x 18" D
- Power Sources: 115/230 VAC ± 10%, 50-400 Hz, 90 Watts