

scientific®

Field Strength Meter FSM1030



(Antenna)

- Auto power saver mode provided
- Manual scan mode, channel (memory scan) search scan
- Store signal into data format
- Frequency Counter data memory store
10 reading
- Detachable antenna included
- Auto power saver mode provided

- Hand Held & battery operated
- Built-in 2 GHz frequency counter
- RS-232 interface and software
- Detects Wide band and narrow band FM, AM
& single sideband signals
- Up to 1600 Channels may be scanned
& displayed

An ideal test bench for lab use and service...

Field Strength Meter FSM1030

Technical Specifications

Frequency Range: 100 kHz to 2060 MHz

Frequency Step: 5 kHz, in multiples of 5 kHz or 6.25 kHz

Frequency Marker Accuracy: ± 25 PPM

Input

Input Impedance: 50 Ω

Maximum Input Volts: 5 V_{rms} (+27 dBm)

Attenuation: 0 dB or -10 dB internal; 0 dB to 60 dB with external attenuator

Narrow Band FM

Level Measurement Range: -10 dB μ V to 40 dB μ V (1 MHz to 2060 MHz)

Resolution: ± 0.5 dB μ V

Accuracy: ± 3 dB

Bandwidth: 12.5 kHz (-6dB)

Wide Band FM, AM & SSB

Level Measurement Range: 0 dB μ V to 50 dB μ V (10 MHz to 2060 MHz)

Resolution: ± 0.5 dB μ V

Accuracy: ± 3 dB

Bandwidth Wide Band FM: Approx. 180 kHz (-6dB)

Reception Sensitivity: 0 to 6dB μ V

Display

Display Modes: Spectrum, Bar Graph, Frequency Counter

Spectrum Display: 1600 Channels

Bar Graph Displays: Multiple Channel (2, 5, 10, 20, 40, 80, 160 bar graph per display)
Single Channel & 2 Channel difference

Sweep modes: Single, Normal, Free Run

Scan Mode

Manual Channel (memory scan) & search scan

Scan Rate: 12.5 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: 9 MHz to 2060 MHz

Resolution: 1 kHz

Accuracy: ± 50 PPM ± 1 count

Input Impedance: 50 Ω

Max Input Volts: 5 V_{rms} (+27 dBm)

Input Sensitivity: 9 MHz to 2060 MHz: 120 mV rms

Data Memory: Stores 10 Reading of counter

General Information

Auto Power Off: Automatically turns power off 30 min. After the final key is pressed.

Display: LCD- 192*192 dots, LED backlighted.

LED Backlight: Backlight turned OFF 5 sec. after the final key is pressed. Continuous light ON is also available.

Power requirements: AA or Alkaline Batteries 12 V

Interface: RS-232

Operating Temperature: -10 °C to 50 °C

Dimensions: W:105, H:220, D:45 (mm) (approx.)

Weight: 700 g (approx., Antenna is not included)

Accessories: Manual, 6 no. of 1.5 AA batteries, Detachable antenna, RS-232 interface cable, carrying case, ear phone, AC/DC adapter

Optional Accessories: 75 Ω to 50 Ω matching pad, F-BNC adapter, car adapter, AC adapter, ATT 20 dB/40 dB, mini printer(Rs-232C), Block voltage unit, software for PC interface. Software is compatible to Windows 95 / 98 / M6 /2000 /XP

(subject to change)

FSM1030_V1_0

SCIENTIFIC MES-TECHNIK PVT. LTD., B-14, Pologround, Industrial Estate, Indore-452 015 India.
Ph. : 0731-2422330/31/32/33 Fax : 0731-2422334, 2561641 e-mail : info@scientificindia.com

scientific[®]

Allahabad (0532) 2260833

Bengaluru (080) 23437635, 2331478

Chennai (044) 24424598, 42054180

Hydrabad (040) 27534995, 27534996

Mumbai (022) 24333654, 24211171

New Delhi (011) 65638100, 65638101

Pune (020) 26114688, 26132882

e-mail: allahabad@scientificindia.com

e-mail: banglore@scientificindia.com

e-mail: chennai@scientificindia.com

e-mail: hydrabad@scientificindia.com

e-mail: mumbai@scientificindia.com

e-mail: ndelhi@scientificindia.com

e-mail: chennai@scientificindia.com