

ELECTRONIC COUNTER MEASURES

RFD-5

RADIO FREQUENCY DETECTOR



RFD-5 is a highly sensitive wide-band radio frequency detector with large dynamic range and enormous frequency range. RFD-5 functionality is optimized for professional detection and localization of radio listening devices.

Current radio-electronics offers a number of eavesdropping systems which cannot be detected before their operative activation. There are two basic solutions to prevent eavesdropping: electronic sweeping and permanent protection. RFD-5 is designed for professional electronic sweeping and additionally it allows even a non-specialist to achieve basic permanent protection.

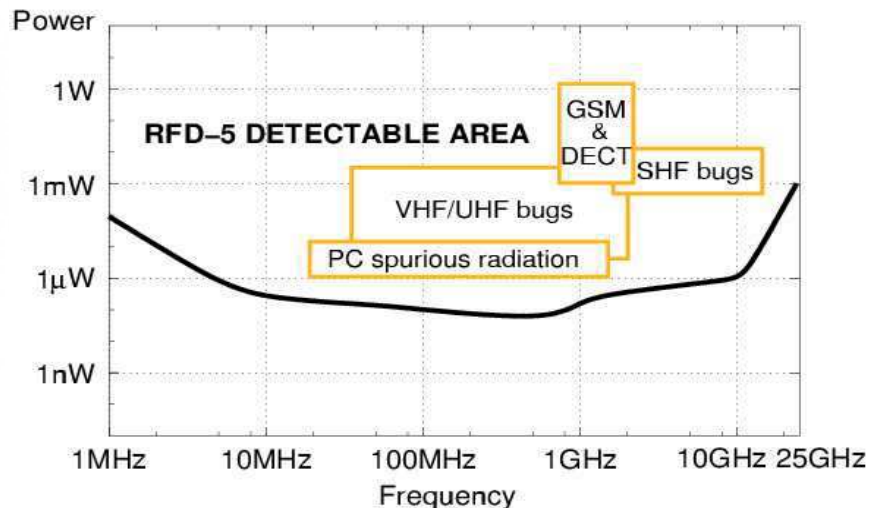


Fig.: Ability of RFD-5 to detect various radio listening devices.

RFD-5 is light compact device built in a mechanically robust metal box. Its main features are:

- High sensitivity and dynamic range
- High frequency range (detection up to 25GHz)
- Short pulse detection, peak level memory
- Interference filters
- Audio signal demodulation
- Geiger click indication
- 4-way signal strength indication (bar, numerical, delayed bar, peak)
- Detecting all radio devices including digital encoded
- Detecting spread spectrum, hopping and pulse transmissions
- Detecting mobile phones and computers (including manipulated devices)
- Permanent protection: events recording (including time and signal level)
- RF background elimination
- Possibility to calculate bug radiated power and distance
- Low power consumption, long battery life

RFD-5 Technical Specification

- Frequency range: 0.5MHz to 25GHz
- Typical sensitivity: 0.06uW ERP (400MHz / 5cm / level=5)
- Dynamic range: 43dB basic, + 40dB attenuation LOCAL
- Detectable pulse width: >80us
- HF filter (HF OFF): -26dB on 10MHz

- Audio volume control: 4 levels (range 36dB)
- Geiger click indication: internal buzzer

- LCD indicator (2x12 characters)
- Instant signal strength indication:
 - bar indicator (39 levels)
 - numerical (251 levels)
- Peak level indication:
 - delayed bar indicator (24 levels)
 - delayed numerical indication (251 levels)
- Level refresh: level increase 1ms, level decrease 6s (delayed indication)

- Alarm counter: 99 events
- Alarm memory: 16 events, including time and signal level
- Next alarm record delay: 70s

- Built in telescope antenna: adjustable 1 to 37cm
- Earphone: stereo type, 32ohm
- Battery low indication: below 7V
- External power supply: 12V-20V DC unstabilized
- Accumulator recharge circuit: optimized for NiCd
- Battery: 9V model 6F22, or 9V accumulator
- Current consumption: 3.5 to 6mA
- Mechanical size: 150 x 60 x 31mm
- Weight: 295g