

AdaptAlert™

Tone Alert Radio

Warning Systems' versatile new VHF alerting receiver is field-programmable to any single frequency within the 148 to 172 MHz band segment. It responds to any **single-tone, two-tone, DTMF**¹ or combination of activation sequences². The built-in flexibility to change frequency and activation code is your protection against equipment obsolescence. In this world of uncertainty, many organizations are not prepared for the changes in communications space allocation as a result of spectrum demand. This WSI radio provides you with an easy mechanism to change not only frequency but also signaling mode. This means no crystals to change, **ever**, and no need to replace expensive plug-in tone decoders when your requirements change. WSI offers an optional programming tool and software that will run on any office PC using a Windows operating system³.

Our alerting receivers are available in narrow-band and wide-band versions to accommodate your system requirements. Both offer excellent sensitivity and adjacent channel signal rejection. The alerting tone level is sufficiently loud (>85dB SPL) to be heard in most noisy locations or large offices. For high noise environments, such as a gymnasium, factory or warehouse, we offer optional plug-in accessories for extending audio and visual notification. These accessories provide effective alert and notification for hearing impaired and other special needs recipients.



¹ DTMF sequences should be 12 characters or less.

² Up to six different combinations per radio.

³ WSI receivers can be factory programmed when ordered. An optional programming kit is also available.

Specifications

- FM receive deviation: +/- 2.5 kHz narrowband (NB) and 5.0 kHz wideband (WB)
- Sensitivity: 0.63uV into 50 ohms (-111dBm, 12dB SINAD), dynamic range 74dB minimum
- Spurious rejection: Image rejection = -70dB, spurious response = -80dB
- Demodulation bandwidth: 500 Hz to 5 kHz
- Baseband de-emphasis: -6dB per octave (500 Hz – 2500 Hz), -18dB per octave above 2500 Hz
- Audio distortion: <10% @ 85dB SPL output, reference 1 kHz tone with +/- 1.5 kHz (NB) and +/- 3.0 kHz deviation (WB)
- Hum and noise: 37dB unsquelched, 57dB squelched relative to a full quieting signal with 1 kHz reference tone @ 1.5 kHz (NB) and 3 kHz (WB) deviation at the rated audio frequency output power of 1 watt
- Line out (rear panel): 1.0Vpp into 600 ohms balanced, transformer coupled
- Operating DC current: < 500 mA in full receive mode, unsquelched
- 6 hour standby receive mode with 25% duty cycle on internal rechargeable lead acid (gel cell) battery
- Programmable activation modes: single-tone, two-tone (tone ranges: 280 Hz to 3500 Hz, tolerance range +/- 1.1%), dual tone multi-frequency (DTMF) up to 12 characters length or combinations of these

Standard equipment

- Wall-mounted power supply: 9VDC @ 900 mA
- Antenna: 50 ohm helical rubber with BNC swivel connector
- Internal battery: 6.0VDC, 2 amp-hour

Optional equipment (all connect to rear panel RJ-12 connector)

- Strobe: 75 candela, 60 flashes per minute nominal, with internal battery backup, compliant with the American Disabilities Act (ADA)
- External Relay Module (ERM): provides two sets of relay switched contacts rated for 5A at 24VDC or 250VAC for activating external devices, and an isolated balanced 600 ohm 0dBm receiver audio output line for driving public address (PA) systems or audio recorders
- Field Programming Kit: Personal computer serial port interface, includes programming software and one year of free software upgrades

Regulatory

- FCC Part 15 Compliant
- UL listed



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