

AdaptAlert™

RF Activation System- SDC

The Warning Systems, Inc. (WSI) RF Activation System provides emergency managers a web-based link to activate tone-encoded systems. This fast and user friendly web-based system can be accessed from the internet, local network, or directly when a network connection is unavailable. The system is comprised of a Communication Processor (CP) and an RF controller. The CP provides network connectivity while the controller communicates with the existing transmitter. This adds redundancy and remote capability for outdoor sirens, pagers, radios and other warning devices. The system can activate devices that utilize DTMF, two-tone or single-tone protocols.

If the target device receives over-the-air audio, the system can use live audio, stored audio, or WSI's Text-to-Speech (TTS) with preview capability. Prerecorded audio files can also be stored as a template for rehearsed scenarios or uploaded and then played on demand. The system can also be activated with a Common Alerting Protocol (CAP) message using TTS or a prerecorded wave file if audio is needed. This allows activation of the targeted RF device to be integrated into another dissemination system such as those that send email and text alerts. The synthesized audio can be previewed when using the on-board web interface or when accepting a CAP message from another system. It can also be trained phonetically to compensate for alternate pronunciations or regional dialects.

The AdaptAlert RF Activation system is password protected and uses the highest available encryption (SSL 3.0). The system has three RJ-45 Ethernet interfaces, but can also be configured for encrypted wireless networking. Additional security can be implemented using firewall rules.



The AdaptAlert™ RF Activation System features include:

- Web-based for remote access
- On-board Text-to-Speech (TTS) audio generation
- 1U Rack size
- CAP 1.1 compliant
- Username and password protected security supported by SSL 3.0 with 128 bit encryption
- Time-stamped message logging
- Display of current controller state or test operation on 2-line by 16 characters/line illuminated liquid crystal display
- 1000 Hz SINAD tone and two-tone test functions for transmitter alignment and testing
- Front panel test control buttons
- Internal amplifier and speaker with front panel volume control for transmitted signal monitoring
- Transmitter keying for SINAD and two-tone test functions. Automatic timeout after 3 minutes of idle time in test mode
- Dynamic microphone input for public address mode (PA)
- Auxiliary audio input for NOAA weather rebroadcast or other audio transmission functions
- Standard -10dBm 600 ohm balanced auxiliary audio and backup controller input lines and transmitter output lines
- Four-wire transmitter output: isolated push-to-talk and audio
- Two-wire output (using tone-remote plug-in option)

Power requirements: Less than 10 watts: 18VDC/500mA wall power supply

Input impedance: Computer Audio In: 10K unbalanced
Auxiliary Audio In: 600 ohms balanced
Standby Audio In: 600 ohms balanced

Output impedance: Transmitter audio: 600 ohms balanced

Input signal level: -10dBm

Output signal level: -10dBm

Distortion and noise: < 0.5%

Frequency response: 35 Hz to 15 kHz



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