

# AdaptAlert™ Industrial Weather Radio DSP-300-NW

## NOAA Weather Radio Compatible

The U.S. National Oceanic and Atmospheric Administration's (NOAA) National Weather Service (NWS) uses the NOAA Weather Radio (NWR) network to broadcast official weather service warnings, watches, forecasts and other hazard information. The Warning Systems, Inc. (WSI) DSP-300-NW is designed to receive the NWR broadcast on any one of the seven NOAA broadcast frequencies (channels).



The WSI AdaptAlert DSP-300-NW is:

### ■ Sensitive

The AdaptAlert DSP-300 unit is manufactured to exacting specifications for high sensitivity and comes standard with a rubber-encased helix antenna. This enables superior reception, even in locations where the NWR signal may be weak.

### ■ Versatile

AdaptAlert DSP NWR comes with rear panel jacks to enable connection to external audio equipment such as a recorder or public-address amplifier. The standard antenna can be replaced with a connector to an external (indoor or outdoor) antenna. The DSP-300 can be placed on a desktop, shelf, or mounted in a standard 19" wide equipment rack, using an optional adapter plate.

### ■ Effective

The DSP-300 includes an internal speaker with 1 Watt maximum audio output. This produces an alert sound of 85dB Sound Pressure Level (SPL), which is often needed in busy office locations, schools or fire stations.

### ■ Reliable

Every DSP-300 passes rigorous operational and functional test procedures during manufacturing to ensure that every customer receives a high-quality product.

# AdaptAlert™ DSP-300-NW



## Features:

- Supports Specific Area Message Encoding (SAME) technology to decode the NOAA Weather Radio (NWR) digital broadcast information for all types of emergencies
- User selectable to receive 1 of 7 NOAA Weather Radio Channels
- Programmable to receive alerts for up to 4 SAME location codes
- Backlit LCD Graphics Display showing radio status icons and NWR messages
- LED indicators for Warning, Watch, and Advisory
- Provides date and time display when no warning messages are being displayed
- BNC Connector (50 Ohm) for cable to external antenna
- RJ-12 connector for 600 Ohm balanced audio to connect to audio devices over long audio lines, and relay closures for external equipment activation
- Made in the USA; engineered and manufactured at facilities in North Alabama
- Functional Test Data provided with every unit

## Specifications:

- Sensitivity: 0.35uV into 50 ohms (-116dBm, 12dB SINAD), dynamic range 74dB minimum
- Spurious rejection: -65dB
- IF rejection: 70 dB
- Demodulation bandwidth: 500 Hz to 5 kHz
- Phase Locked Loop (PLL) tuning for all 7 NOAA Weather Radio station frequencies
- 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 +/- 3.0 kHz deviation
- Hum and noise: 37dB unsquelched, 57dB squelched relative to a full quieting signal with 1 kHz reference tone @ 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
- Power: 7.5VDC @ 900 mA wall-mounted power supply
- LCD Display: 4 lines typical (128 x 64 pixels)
- Battery: 6 hour standby receive mode with 25% duty cycle on internal rechargeable lead acid (gel cell) battery
- Dimensions: 6.75" W x 2.5" H x 9.9" D
- Weight: 4.2 lbs



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