



THUNDER EAGLE, INC.
Wireless Alerting Systems

MRI-100™ Multi-Radio Interface



Places Weather Alerts and Live Audio on Trunked and Conventional Radio Systems

Weather and emergency alerts are time-critical messages. It is critical to get these messages to the maximum number of people, using existing, multiple, and independent radio systems, without disrupting normal communications.

Thunder Eagle has developed a method to distribute these alert messages throughout your existing conventional or trunked radio systems. The MRI-100 interface to the Thunder Eagle WE110/AE120 places real time weather alerts, or just beeps, on up to three channels or talk groups. This system has been effectively used in some of the most demanding applications throughout the country including fire and police two way radio systems, as well as at national amusement and entertainment venues.

The MRI-100™ is a sophisticated, rack-mounted interface designed for easy connection to your two-way radio system. NWS audio comes from the WE110, and weather alerts are filtered for event and location match by the AE120 EAS/SAME decoder. The system is a versatile, logic-and-audio interface with three separately controlled channels.

Easy Operation

- The MRI-100 automatically places 'matched' (event and location) alerts on a lower-priority channel or weather talk group and keeps the high-priority dispatch/all-call channel clear with 'beeps-only' alerts.
- Users on a lower priority channel can access 60 seconds of live weather from the field by pressing their mike button for four seconds.

How the MRI-100 Works

- The MRI-100 has three double-pole-double-throw relays. One pole of each relay is for the audio (or beeps) and the other pole is for press-to-talk (PTT).
- The MRI-100 will sense an active high +5 COS from one transceiver for live weather audio activation from the field for the period of time set in the menu (default 60 seconds).
- When a channel in the MRI-100 is set in 'beep' mode, ten beeps, but no audio, will be issued as an alert on that channel. This prevents the interruption of critical communications in progress.
- A test button on the MRI-100 makes it easy to set up and configure the system. LEDs show the status of each logic input and output on the system.
- The user supplies the transceivers for use with the MRI-100.



Revised 10/25/10