

## RFI-148 100 in Emergency Alerting System

- 100 Watts
- 100% duty cycle
- Full simulcast support
- Remote diagnostics
- Complete real time control via management interface

The STI Engineering RFI-148 100 Watt VHF paging transmitter is being used in the Victorian Government's state-wide Emergency Alerting System (EAS).

Servicing the 30,000 personnel of the Country Fire Authority, Rural Ambulance Victoria and the Victoria State Emergency Service, the EAS replaces a variety of outdated systems to provide a guaranteed method of emergency message delivery to all populated areas of Victoria.



Implemented by LSE Technology (Australia) Pty Ltd, the EAS consists of sophisticated comprehensive message management and reporting systems, along with a 24x7 Network Operations Centre and Help Desk for network users. Messages are distributed to more than 160 transmitter sites throughout the state via satellite services and broadcast simultaneously.

The system takes advantage of the transmitter's inbuilt simulcast options for absolute delay, carrier offset and high precision GPS reference to eliminate the common causes of message loss such as simulcast delay spread and zero beating.

LSE has implemented a unique form of messaging where paging messages can be individually encoded for transmission at POCSAG 512, 1200 or 2400. In normal operation, POCSAG 512 is used to ensure the maximum possible message saturation, where 2400 can be used in times of extremely high message volumes to ensure messages are still delivered within strict message delivery time requirements. An emergency system requires high availability and the STI Engineering paging transmitter was chosen due to its proven reliability in installations throughout Australia, America and Europe.

The system also takes advantage of the comprehensive diagnostics available on discrete outputs and the serial interface. The operator can download diagnostics and fault reports from the transmitter remotely and take action immediately. This is especially important for the maintenance of the system as many transmitter sites are hundreds of kilometres from major cities.

### **STI Engineering**

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