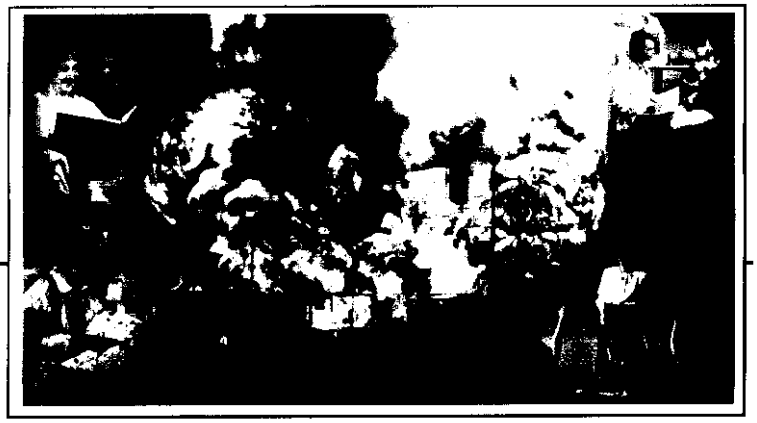
INFORMER



Instant alert and notification of emergency situations

High efficiency 85 dB(A) 4" speaker for tone and voice

Easy, unlimited external programming and unlimited reprogramming of the units operating system via RS232 port

16 million addresses including group and all call

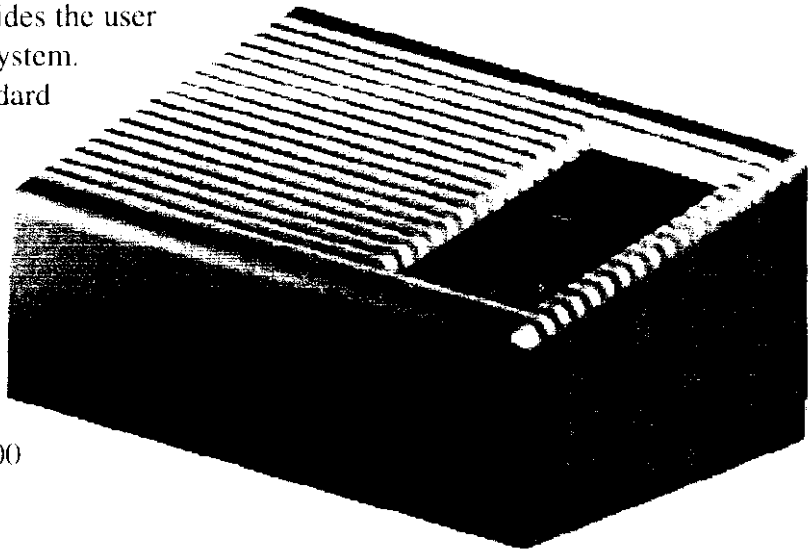
Easily adaptible for the hearing impaired

Battery Back-up

Federal Signal ISO9001 Quality Assurance

he Federal Signal ***Informer*** Tone Alert Radio (TAR) receiver has been designed specifically to meet the needs and requirements of Appendix F of the Chemical Stockpile Emergency Preparedness Plan (CSEPP) Guidelines. This TAR receiver will alert the general population of potential hazards and deliver audible instructions to aid Emergency Managers and the populace in mitigating the hazards.

Utilizing a state of the art digital transmission system, the ***Informer*** receiver system operates via an IBM compatible computer running either Windows 95 or the Windows NT operating systems as desired. The computer's graphical user interface offers operators the ability to select the desired functions and grouping or addressing of receivers with a point and click. A computer log of all activities provides the user with reports of all activations and tests of the system. Pre-recorded voice messages are stored in standard .wav files.



The computer is connected to the Federal Signal model SS2000 digital encoder through a standard RS232 port and sends FSK encoded messages and voice to the radio system. The SS2000 includes a microphone for live voice announcements and a speaker for monitoring radio traffic. The SS2000 can also be used to activate the system directly.

FEDERAL SIGNAL CORPORATION
Federal Warning Systems

SPECIFICATIONS*

Receive Frequency ..... 850-866 MHz
..... 150-172 MHz
Frequency Stability ..... 1.5 ppm @ 800MHz
..... 2.5 ppm @ VHF

Reference Sensitivity
(12dB SINAD) ..... 0.25 microvolts /12dB Sinad

20dB Quieting ..... 0.35 microvolts

Signal Displacement Bandwidth ..... > 2kHz

Adjacent Channel Selectivity ..... >-100dB @ +/-25kHz

Spurious Response ..... >/= -70dB

Intermodulation Rejection ..... >/= -70dB

Frequency Response (Referenced to 1kHz)
- 300 - 500 Hz ..... Flat
- 500 - 2500 Hz ..... -6dB/Octave
- 2500 - 3000 Hz 18dB/Octave

Hum and Noise
- Squelched ..... -57dB
- Unsquelched ..... -37dB

Audio Distortion (PA)
- @ 85dBA ..... Below 10%
- @ 68dBA ..... Below 5%

Squelch Sensitivity ..... present to 20dB quieting**
- Adjustment Range ..... 0 to 30dB quieting

Audio Sensitivity
(% of nominal system deviation) 30%

Modem
- Type ..... Minimum Shift Key (MSK)
- Baud ..... 1200 BPS
- Modem Tones ..... 1200Hz mark, 1800Hz space
- Sensitivity ..... <12dB S/N

Acoustic Output 85dBA***

AC Wall Transformer
- Input ..... 108 to 128 VAC, 60 Hz
- Output ..... 9VDC @ 500 mA

Rechargable Battery
- Type ..... Sealed Lead Acid
- Rating ..... 6VDC, 1.2 A/H
- Minimum life without AC power ..... 6 Hours @ 25% run time

External Antenna Connector ..... 50 ohm, BNC female

Relay Output ..... SPST 1A @ 30 VDC, 0.30 A @ 125 VAC

Antenna ..... Built in, unity gain antenna

Operating Environment ..... -20 to +50C

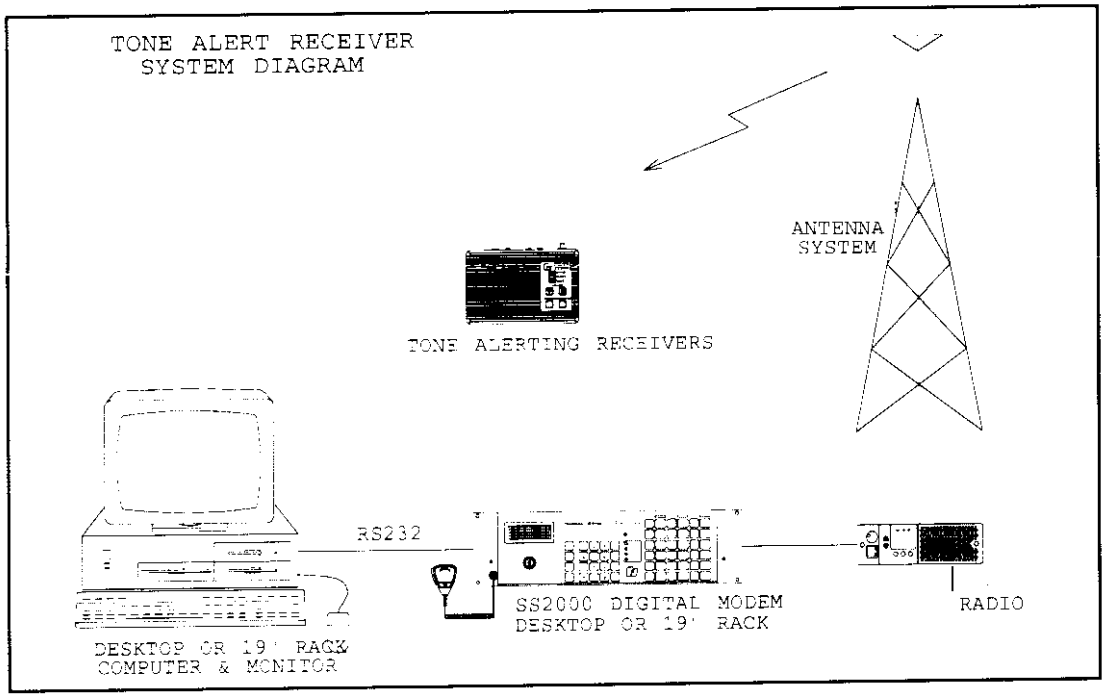
Strobe (optional) ..... 100 Candella, 60 flash min.

Dimensions
5" W x 7" H x 2 1/2" (10% incline)

**Receiver Specifications referenced to TIA/EIA 603*

*** Squelch circuit is based on quieting or cleanness of signal not signal level based as this could be opened by interference and leave the receiver unable to be squelched.*

****Acoustic Output measured at 10' on axis in an anechoic environment*



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