



RANS-DV

DIGITIZED VOICE ALARM ANNOUNCEMENT SYSTEM

The *Roving Alarm Notification System (RANS)* was developed specifically to provide rapid alarm information to responding personnel. Providing alarm information to roving personnel has the advantages of:

1. rapid announcement to responding personnel regardless of their location and
2. ability of on-station personnel to monitor a larger area, thus reducing the number of personnel required.

RANS-DV receives alarm signals from a contact closure or RS-232 serial data input from another alarm system or device. The alarm causes activation of a voice message specifically tailored to provide precise alarm information in clearly spoken English (or any other) language. The *RANS-DV* alarm output is configured for easy connection to:

- RANS-Voice* portable alarm receivers
- Pocket pagers from major manufacturers
- A customer-owned “walkie-talkie” radio system
- A paging amplifier and loudspeakers
- An intercommunications system

The basic alarm encoder is configured to receive up to 64 alarm inputs from closed-contact-type alarms or solid state outputs of other alarm equipment. “Piggy

- Provides Rapid Alarm Announcement
- Reduces Personnel Required
- Personnel Alerted Regardless of Location
- Alarms are Clearly Spoken English (or any other) Language

back” expansion boards allow up to 256 separate alarm inputs. When the encoder receives an alarm, it searches for the alarm response and the audio message that was pre-programmed for that alarm input.

Alarm messages can be reconfigured in the field without removing the system from service. You decide the alarm messages you wish to send.

Encoder circuitry stacks multiple alarm messages and sends them out one after the other. No alarms are lost. A built-in test feature sends alarm messages through the internal amplifier and loudspeaker.

The radio transmitter provides a nominal two-watt or five-watt radio frequency output for communication to the *RANS-Voice* receivers or two-way radios. HF, VHF, UHF, and 900 MHz frequencies are available.

The radio transmitter is remotely located near the antenna and communicates to the alarm encoder via a telephone line type connection.



The *RANS-DV* portable alarm receiver functions like a voice message pocket pager. Each receiver has its own unique code but can also be called as a group for alarm messages. When an alarm is sent, the *RANS-DV* portable alarm receiver emits an alarm tone followed by the audio alarm message. Alarm receivers can be configured for use as a radio paging system as well as an alarm system. *RANS-DV* portable receivers are ruggedly constructed and can be provided with optional leather holsters for added protection. Battery chargers and storage racks are also available.

SPECIFICATIONS

Alarm Encoder

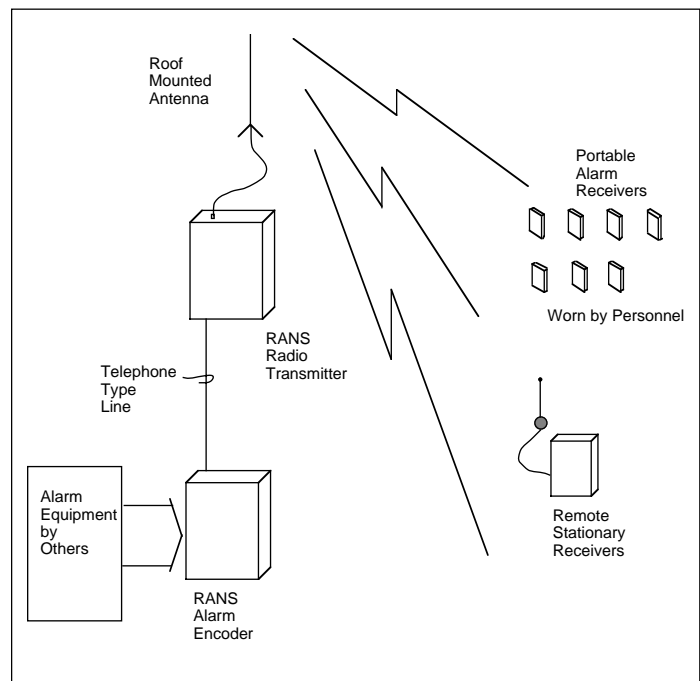
- Alarm Messages:** Up to 256 alarm inputs provide up to 256 individual alarm messages. Basic encoder provides 64 alarm inputs, expandable to 256 in groups of 64.
- Alarm Inputs:** Closed contacts or solid state input from other alarm systems. RS-232C serial data input from other computerized inputs. Protocol and sample software furnished.
- Outputs:** Closed contact (24VDC, .25 amp.)
0-dBm, 600-ohm audio output.
Current loop, 1000-ohm maximum loop resistance.
Programmable keying output.
1-watt, 8 ohm output to internal loudspeaker.
- Indicators:** Green power-on LED.
Red message-transmit LED.
Red test LED.
- Controls:** Test Switch.
Volume control.
Digital output level control.
- Power Required:** 12VAC, 120 ma. provided by external UL-listed wall transformer.
- Enclosure:** 12"W X 14"H X 4"D.
- Weight:** 4.5 lbs.

Transmitter

- Frequency:** Selection available: HR-30-50 MHz, VHF, 148-174 MHz, UHF 406-420 MHz, UHF 450-470 MHz, 902-928 MHz. Other frequency ranges on special order. Consult factory.
- Power Output:** 2 watts or 5 watts (optional), 50-ohm load.
- Power Required:** 12 VAC or 12 VDC, 1.5 amp, provided by UL-listed wall transformer.
- Enclosure:** 12"W X 12"H X 4"D CRS wall-mount enclosure, with hinged cover and key lock.
- Weight:** 16 lbs.

Portable Alarm Receiver

- Frequency:** Selection available: VHF 148-174 MHz, crystal controlled; UHF 406-420 MHz; UHF 450-470 MHz.
- Sensitivity:** 12 dB SINAD, 12 microvolts per meter.
- Audio Level:** 90 dB SPL average from 300 Hz to 3000 Hz at 12 inches.
- Battery Life:** Rechargeable NiCad 600 mA/H battery.
- Dimensions:** 3.5" X 2.6" X 1.0" with heavy-duty wide belt clip.
- Weight:** 5.5 ounces with battery (w/o holster).



Typical RANS-DV Installation