



TECHNICAL NOTE 01-96

RANS RA-500 ENCODER OUTPUTS FOR AUDIO CONNECTION

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BACKGROUND

The RANS-Voice system provides audio outputs on alarm, both for audio use and for activation of radio transmission systems, including pagers. In cases where an audio output is required for use with other systems, there are several choices. This document describes the outputs available.

CONNECTIONS

600-ohm balanced output

A transformer coupled 600-ohm balanced "telephone type" output is available at screw terminals, J11, or pin terminals, P6. This circuit board for audio use has been jumpered to be a truly balanced output with no DC switching voltage as is normally provided for remote transmitter operation. The output level is controlled by the Level control, R14.

UNBALANCED LINE LEVEL OUTPUT

An unbalanced line level output (1-volt p-p) is available at pin connectors P8 and P9. P8, left pin, is audio output. P9, right pin, is ground reference. The output level is controlled by the Level control, R14. If you wish to use these connections, please contact the factory and **CDT** will provide you the mating connectors at no additional charge.

LOUDSPEAKER OUTPUT

A two-watt, 8-ohm audio output is provided at Speaker terminals, J13. The top terminal is ground, the bottom terminal is signal. The output level is controlled by the Vol control, R24. A remote volume control can be connected to the Vol terminals, J14. These terminals are currently jumpered. An internal loudspeaker is currently connected to the speaker terminals to allow you to hear your signals. If this output is used, the internal loudspeaker should be disconnected.

RELAY OUTPUT

A normally open relay contact is provided at Key Relay terminals, J7. This relay contact, rated at .25 amp @ 24VDC, closes whenever there is an alarm and remains closed for the duration of the alarm. This output is often used to activate equipment by others.

The features of the RA-500 encoder are programmable. If you have any questions, or need any further assistance, please contact **CDT**.