

Telex Model TR-800 Beltpack

Owners/Users Manual (Preliminary Information).

General Description:

The Telex Model TR-800 Beltpack Transmitter/Receiver is a component of the BTR-800 Wireless Intercom System. Each BTR-800 can use up to 4 TR-800 units per base station. The TR-800 operates within the 518 to 608 and 614 to 746 MHz range. (TV Channels 22-36 and 38-59). The receiver section generally operates on selected frequencies within the lower half of the frequency range and the transmitter section operates within the upper half of the frequency range. The actual transmit and receive frequencies are contained within two 18 MHz wide sections of the frequency range.

Maximum Transmitter Output Power is 50 mW. The TR-800 transmit power is automatically reduced when the unit is close-in to the base station to aid in intermodulation reduction.

Operating frequencies can be selected from pre-set groups or the user can select special operating frequencies within the 18 MHz wide allotments.

The Talk button on the top panel can be switch selected to operate in the Push to Talk mode or the Push to Transmit mode. Push to transmit allows multiple TR-800 units to function as simplex units on one of the BTR-800 Channels.

The microphone gain control, along with the LCD Display, talk function switch and frequency/group controls are located on the back panel.

The ON/OFF/Volume Control, Talk Button, Low Battery, Modulation Indicator and the Talk Light are located on the top panel.

Wireless Talk Around and Stage Announce buttons with their indicators are also on the top panel

Transmit and Receive antennas are attached to the TR-800. Either or both unscrew for field replacement. (screw connections are not coaxial).

The TR-800 Beltpack can be powered by AA Alkaline or a Nickel-Metal Hydride Battery pack.

Specifications:

Input Power.....9.0 VDC Alkaline or NiMH.

Antennas.....attached.

Channels, two, frequency agile, 25 KHz steps, within 18MHz allotments.

Frequency Range.....518-608 and 614-746 MHz.
Within 3 TV Channels, 18 MHz allotments.

Transmitter:

RF Power Output.....50 mW typical.

Frequency Deviation.....+/- 40 KHz Peak.

Audio Frequency Response.....200 Hz to 10 KHz.

Microphone input level.....7.75 mV for 40 KHz Deviation.

Receiver:

Sensitivity.....0.8 uV for 12 dB SINAD.

Squelch.....Opens at 20 dB SINAD.

Modulation Acceptance.....40 KHz Nominal.

Audio Frequency Response.....200 Hz to 10 KHz.

Audio Output (headset).....200 mW, 600 Ohms.

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