

BTR-200 BASE STATION TRANSCEIVER

TECHNICAL INFORMATION

SPECIFICATIONS BTR-200

Input Power	13.0 VAC RMS/300 mA with supplied adaptor or filtered 12 to 14 VDC/300 mA source
Intercom Output	50 mV (Low) or 330 mV (Hi) RMS into 300 ohm load typical (at rated deviation)
Intercom Input (Gain Minimum).....	300 mV RMS typical (for rated deviation)
Auxiliary Output	430 mV RMS into 600 ohm load typical (at rated deviation)
Auxiliary Input (Gain Maximum)	60 mV RMS typical (for rated deviation)
Local Headset Input	2 mV RMS input nominal 1.5 mV RMS input at compression (Dynamic)
Local Headset Output	32 mV maximum output into 600 ohmst
Temperature Range	-4°F to 130°F (-20°C to 55°C)
Dimensions.....	15.75" W x 1.75" H x 10.5" D (40 cm x 4.5 cm x 26 cm)
Weight	4.5 lbs (2 kg)

Transmit

RF Frequency Range	150-216 MHz
RF Frequency Stability	Crystal Controlled, 0.005%
RF Power Output	50 mW Typical
Modulation.....	FM, 3 KHz deviation. 115 micro-seconds Pre-emphasis
Transmit Antenna	5/8-wave (supplied) SO239 connector on chassis
Modulation Limiter	Internal Compressor
Modulation Frequency Range	300 to 5000 Hz ±2 dB
Radiated Harmonics and Spurious Emissions.....	-45 dBC, Exceeds FCC Specifications
FCC.....	Type Accepted Under Parts 90 and 74

SPECIFICATIONS BTR-200 (Cont.)

Receive

RF Frequency Range	150-216 MHz
RF Frequency Stability	Crystal Controlled, 0.005%
Type	Dual conversion superheterodyne, FM
RF Sensitivity	Less than 0.5 μ V for 12 dB SINAD
IF Selectivity	3 dB at 30 kHz (4 pole Monolithic Filter)
Image Rejection	65 dB or better
Squelch Quieting	90 dB
Squelch Threshold	1.0 μ V (Internal)
Signal-to-Noise Ratio	90 dB
Receive Antenna	5/8-wave (supplied) SO239 connector on chassis
Distortion	Less than 1% at Rated Output
FCC	Notification Under Part 15

FEATURES

The Telex Model BTR-200 is a Base Station with one transmitter and four receivers. It is designed for portable two way communication with the capability for interface to other audio systems. Features include:

- An extremely flexible unit that has the capability to communicate at one time with any number of the available portable stations (up to four) or wired stations (intercom and/or other audio source).
- Powered by an external AC wall supply (supplied), via the power jack on the rear of the unit. It can also be powered by any filtered 12 to 14 VDC/300 mA source or 13.0 VAC RMS 300 mA source.
- Intercom connections with the ability to interface with most wired intercom systems.
- RF LED indicator for each portable station.
- All metal case for superior shielding.
- Molded front panel for aesthetic appeal along with functionality .
- Table or single height rack mountable.