



TECHNICAL DATA SHEET



The RTS™ BP-319 and BP-351 are microprocessor controlled beltpack user stations, compatible with the entire RTS™ TW line of products. The BP-319 provides a single channel of intercom, while the BP-351 allows the user to switch between 2 channels of RTS™ compatible intercom. The power circuitry has been redesigned and reinforced to improve overall performance. An RTS™ Standard Compressor Limiter has been added to improve audio performance.

Both beltpacks include a host of user configured features, including audible call alert and remote mic kill enable. The talk key features momentary/latching capability. The beltpacks provide a powerful 60 milliwatts of drive to the headset.

The BP-319 and BP-351 beltpacks are constructed with aluminum bodies and die cast metal endcaps for long life and reliable operation. The precision fit of the case pares, along with the rubber membrane switch covers provide a high degree of water resistance.

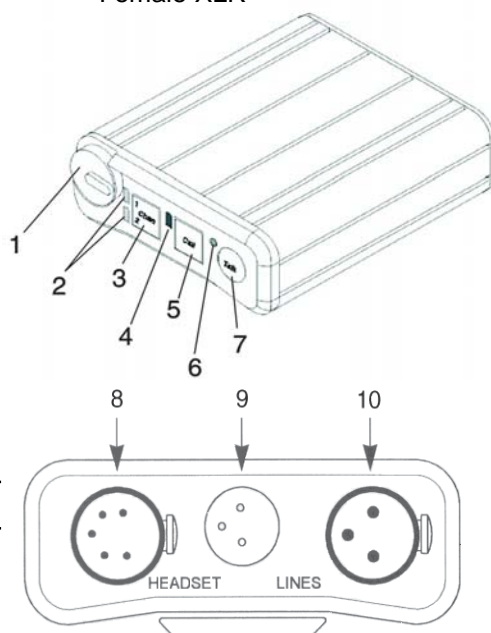
The units are powered externally from the RTS™ intercom line using proprietary "Bi-Lateral Current Source" technology. For ease of use, both beltpacks feature male-female loop-through XLR connectors for intercom line.

For the user that requires dual talk/listen, stereo headset, external program in, or microphone kill signal send, Telex offers the RTS™ BP-325 beltpack user station.

MODEL BP-319/BP-351 BELTPACK HEADSET STATION

FEATURES

Key	Function
1	Headset Volume Control
2	Channel 1/2 LEDS (BP-351 Only)
3	Channel Select (BP-351 Only)
4	Call Signal Detect LED
5	Call Signal Send Button
6	Talk LED (Mic indicator)
7	Momentary/Latching Talk Button
8	Headset Connector XLR-4M or XLR-5M
9	Intercom Channel Connector Male XLR
10	Intercom Channel Connector Female XLR



ORDER INFORMATION

Model No.	Description	Catalog No.
BP-319	Single channel beltpack headset station, 5-pin female	90007753-000
BP-319	Single channel beltpack headset station, 4-pin female	90007753-001
BP-351	Dual channel beltpack headset station, 5-pin female	90007754-000
BP-351	Dual channel beltpack headset station, 5-pin female	90007754-001

PLEASE CONTACT US

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MODEL
BP-319/BP-351
BELTPACK
HEADSET STATION

MODEL BP-319/BP-351 SPECIFICATIONS

General:

Belt Pack Supplied Power Requirements:
30 VDC nominal (standard RTS line), 45 to 70 mA
Environmental Requirements:
Storage: -20°C to 80°C; 0% to 95% humidity, non-condensing
Operation: 0°C to 50°C; 0% to 95% humidity, non-condensing
Dimensions: 5.0"(127 mm)H x 3.5"(88.9 mm)W x 1.8"(45.7 mm)D
Weight: 0.75 pounds (00.34 kg)

Interface Requirements:

Headset:
50 to 200 π dynamic microphone
50 to 600 π dynamic headphone
RTS Intercom Channel:
Output Level: 0.70 Vrms (0 dBu) nominal
Input Level: 200 π \pm 5%
Bridging Impedance: greater than 10,000 π
Call Signalling:
Send: 20kHz \pm 100Hz, 0.250 Vrms \pm 10%
Receive: 20kHz \pm 200Hz, 100 m Vrms
Mic Off Frequency Detect: 24 kHz \pm 200Hz, 100 m Vrms
Noise Contribution: less than -70dB on the line
Common Mode Rejection Ratio: greater than 40dB from the line

Headphone Amplifier:

Voltage Gain: 27 \pm 3 dB from the line
Maximum Output: 60 mW into 150 π
Frequency Response: 200Hz to 8 kHz +1/-3dB
Audible Alert: 1kHz, at the headset

Total Harmonic Distortion: Less than .02% at 50 mW from the line
Sidetone: 20dB minimum range, adjustable

Dynamic Microphone Amplifier:

Voltage Gain: Mic to Channel; 45 \pm 3 dB, before limiting
Mic to Headphone: adjustable, 65dB range into 150p
Frequency Response: 200Hz to 8kHz +1/-3dB
Total Harmonic Distortion: Less than 0.2% at channel output

Electret Microphone Amplifier:

Voltage Gain: Mic to Channel; 27 \pm 3 dB, before limiting
Mic to Headphone: adjustable, 45dB \pm 10% into 145 p
Frequency Response: 200 Hz to 8kHz +1/-3 dB
Total Harmonic Distortion: Less than 0.2% at channel output

Intercom Channel Connector:

XLR-3 M/F Loop thru

Pin 1
Pin 2
Pin 3

BP-319

Common
+30 VDC In
System Channel 2

BP-351

Common
+30 In/Syst Chan 1
System Channel 2

Headset Connector:

Type: XLR-4M

Pin 1 Headset Microphone low
Pin 2 Headset Microphone high
Pin 3 Headphone common
Pin 4 Headphone Chan1 Or Chan1
Chan 2 audio

XLR-5M

Pin 1 Headset Microphone low
Pin 2 Headset Microphone high
Pin 3 Headphone common
Pin 4 Headphone Left (tied to Pin 5)
Pin 5 Headphone Right (tied to Pin 4)

WARRANTY

Products are warranted by Telex Communications, Inc. to be free from defects in materials and workmanship for a period of three years from the date of sale.

The sole obligation of Telex during the warranty period is to provide, without charge, parts and labor necessary to remedy covered defects appearing in products returned prepaid to Telex. This warranty does not cover any defect, malfunction or failure caused beyond the control of Telex, including unreasonable or negligent operation, abuse, accident, failure to follow instructions in the manual, defective or improper associated equipment, attempts at modification and repair not authorized by Telex, and shipping damage.

To obtain warranty service, follow the procedures entitled "Procedure for Returns" and "Shipping to Manufacturer for Repair or Adjustment".

This warranty is the sole and exclusive express warranty given with respect to RTS products. It is the responsibility of the user to determine before purchase that this product is suitable for the user's intended purpose.

ANY AND ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY ARE LIMITED TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

NEITHER TELEX NOR THE DEALER WHO SELLS TELEX PRODUCTS IS LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.