

RTS^T Two Wire Intercom Series

BP-319, BP-325, BP-351 Belt Pack User Stations

The BP-319, BP-325, and BP-351 are portable user stations for use with RTS[™] Two-Wire intercom systems. The BP-319 is a microprocessor controlled one-channel intercom where the BP-351 is a microprocessor controlled two-channel select intercom belt pack. The BP-325 is a binaural (stereo) programmable 2 channel belt pack with PGM-in capability. The BP-319 and BP-351 have connections for headset/earset microphones (Dynamic or Electret), whereas the BP-325 is for use with a dynamic microphone only. The factory setting is for Dynamic.

Features

Call Function

Call function that allows the user to send or receive call signals to other devices on the intercom channel, including audible call alert on the listen side.

Microphone Kill Detect

Microprocessor controlled microphone kill detect.

Powered Externally

Powered externally, via the intercom system power supply on channel one.

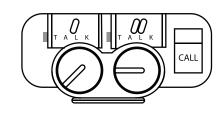
Headset

Headset 4 or 5-pin XLR connection is available. (The BP-325 has both standard.)

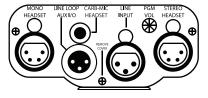
Line Drawings

BP-319

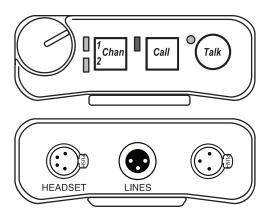
Call Talk



BP-325



BP-351



BP-319, BP-325, BP-351 Specifications

BP-319 and BP-351 General eneral Channel 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 Operating:0°C to 50°C; 0% to 95% humidity, non-condensing Dimensions: 5" (127 mm) high, 3.5" (88.9 mm) wide, 1.8" (45.7 mm) deen mm) deep Weight: Approximately 13 oz (364 g) Interface Requirements Headset/Earset: 50 to 200ø dynamic microphone 50 to 600ø headphones RTS™ Intercom Channel: Output Level: 0.775 Vrms (0 dBu) nominal Input Level: 200ø ±5% Input Level: 2000 ±5% Bridging Impedance: greater than 10,000ø Call Signalling: Send: 20 kHz ±100 Hz, 240 mVrms ±10% Receive: 20 kHz ±800 Hz, 100 mVrms Mic-Off Frequency Detect: 24 kHz ±800 Hz, 100 mVrms Noise Contribution: less than -60 db on the line eachbage Amplifier **Headphone Amplifier** Itage Gain: 18 ±3 dB from the line Vol Maximum Output: 60 mW into 150ø Frequency Response: 200 Hz to 8 kHz +1/-4db nominal Audible Alert: 1 kHz, at the headset/earset Total Harmonic Distortion: . Less than 0.2% nominal at 50 mW from the line Sidetone 20 dB minimum range, adjustable Dynamic Microphone Amplifier Voltage Gain: voltage Gain: Mic to Channel; 45 ±3 dB, before limiting Mic to Headphone; adjustable, 65 dB ±10% range into 150ø Frequency Response: 200 Hz to 8 kHz +1/-4db nominal Total Harmonic Distortion: Less than 0.2% nominal at Channel output Electret Microphone Amplifier Voltage Gain: Less than 0.2% nominal at Channel output Electret Microphone Amplifier Voltage Gain: Mic to Channel; 27 ±3 dB, before limiting Mic to Headphone; adjustable, 45 dB ±10% into 150ø Frequency Response: 200 Hz to 8 kHz +1/-4db nominal Total Harmonic Distortion: Less than 0.2% nominal at Channel output Connector Pin Configurations Intercom Channel Connector XLR-3 M/F Pin 1 Common Pin 2 +30 VDC In Pin 3 Syst Chan 2 Headset Connector Type: XLR-4F Pin 1 Headset Microphone low Pin 3 Headphone Common Pin 4 Headphone Chan 1 or Chan1 and Chan 2 audio Type: XLR-5F Pin 1 Headset microphone low Pin 2 Headset microphone low Pin 2 Headset microphone low Pin 4 Headphone Chan 1 or Chan1 and Chan 2 audio Type: XLR-5F Pin 1 Headset microphone low Pin 2 Headset microphone low Pin 2 Headset microphone low Pin 4 Headphone low Pin 4 Headphone low Pin 4 Headphone low Pin 4 Headphone logh Pin 5 No Connection BP-325

General

Channel Supplied Power Requirements: 30 VDC nominal (standard RTS® line), 65 to 85 mA Environmental Requirements: Storage: -20°C to 80°C; 0% to 95% humidity, non-condensing Operating:0°C to 50°C; 0% to 95% humidity, non-condensing Dimensions: 5.00" (127mm) High, 3.75" (96.3mm) Wide, 2.05" (52.1mm) Deep Weight: 0.75 pounds (340 grams)

Contact Information

Telex® Communications, Inc. 12000 Portland Avenue South Burnsville, MN 55337 Telephone: (800) 392-3497 Fax: (800) 323-0498

Form Number: 38110505 August, 2005

Exterior Polystyrene and polycarbonate mix; gray textured main body Impedance Across Intercom Line Impedance Across Intercom Line 10,000 ohms typical Ambient Temperature Range Operating: 0° C to 50° C Storage: -40° C to 125° C Noise Contribution to 200-0hm Intercom Line -75 dBu Headphone Amplifier -75 dBu Headphone Amplifier Maximum Voltage Gain: 30 dB Frequency Response: 100 Hz to 8 kHz, +/-3 dB Headphone impedance: 50 to 600 ohms Output Power: 150 mW/50 ohms Output voltage level: 8 volts peak-to-peak Microphone Preamplifier Maximum Voltage Gain: 54 dB Frequency Response: 100 Hz to 8 kHz, +/-3 dB Input Impedance: 1,000 ohms, balanced Limiter Range: 30 dB Program Input Maximum input level: +20 dBu Program Input Maximum input level: +20 dBu Nominal input level: +20 dBu Frequency response: 100 Hz to 12 kHz, +/-3 dB Monaural Dynamic-mic Headset Connector XLR-4-31 receptacle (J13) Pin 1 - Microphone low Pin 2 - Microphone high Pin 3 - Common Pin 4 - Headphone high Stereo Dynamic-mic Headset Connector XLR-5-31 receptacle (J14) Pin 1 - Microphone low Pin 2 - Microphone logh Pin 3 - Common Pin 4 - Headphone left high Pin 5 - Headphone left high Pin 5 - Headphone right high Carbon-mic Headset Connector (J1) 1/4-inch, 3-conductor Phone Jack Used for Headset Tip - Carbon microphone Ring - Headphone Used for Headset
Tip - Carbon microphone
Ring - Headphone
Sleeve - Common
Used for Mic Switch
Tip - Remote switch normal-open contact
Ring - No connection
Sleeve - Remote switch common
Intercom Line Input Connector (J11)
XLR-3-31 female receptacle
Pin 1 - Common
Pin 2 - Channel 1 intercom audio and +DC
Pin 3 - Channel 2 intercom audio
Line Loop/Aux Connector (J10)
XLR-3-32 male receptacle
Used for Loop-through:
Pin 1 - Common
Pin 2 - Channel 1 intercom audio and +DC
Pin 3 - Common
Pin 2 - Channel 1 intercom audio and +DC
Pin 3 - Common
Pin 2 - Channel 1 intercom audio and +DC
Pin 3 - Common
Pin 2 - Channel 1 intercom audio
Used for Program Input:
Pin 1 - Common
Pin 2 - Program input high
Pin 3 - Program input low
Used for Remote Mic Switch and/or External Power:
Pin 1 - Common
Pin 2 - channel Kis DC Pin 1 - Common Pin 2 - +18 to +24 volts DC Pin 3 - Remote switch normal-open contact

Ordering Information

BP-319 A4F • 1 channel portable metal belt pack with an A4M headset connector. • Catalog Number: 90007753010

BP-319 A5F • 1 channel portable metal belt pack with an A5M headset connector. • Catalog Number: 90007753000

BP-325 • 2 channel binural (stereo), programmable belt pack • Catalog Number: 9000673800

BP-351 A4F • 2 channel portable metal belt pack with an A4M headset connector. • Catalog Number: 90007754010

BP-351 A4F • 2 channel portable metal belt pack with an A5M headset connector. • Catalog Number: 90007754000

