

Technical Data Sheet

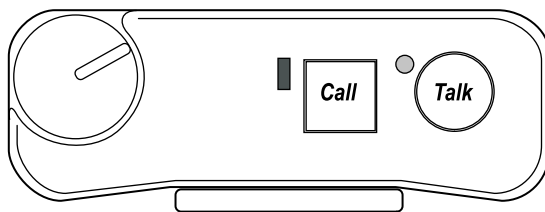
Model BP-1002 & BP-2002 Belt Pack



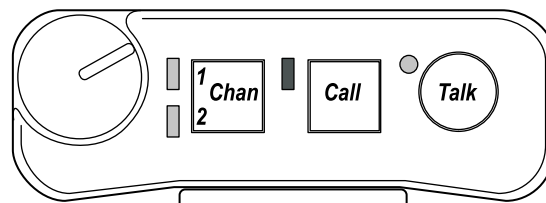
The BP-1002 and BP-2002 are ideal belt packs that keep users connected and offer mobility as well as hands free convenience. The power circuitry has been redesigned and reinforced to improve overall performance. An RTS Standard Compressor Limiter has been added to improve audio performance. For a completely portable intercom system, directly connect your belt pack to the back of an intercom Power Supply or Master station. Alternately, passive wall connector plates can be permanently installed at strategic locations, and the belt packs can then be connected to these using cables. Both the BP-1002 and BP-2002 are Clear-Com[®] compatible.

Features

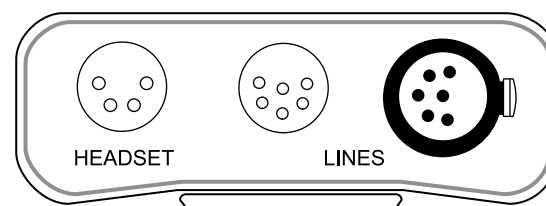
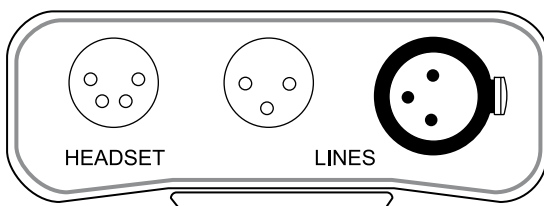
- **TALK BUTTON AND INDICATOR:** The Talk button activates the headset and microphone and can operate in either Latched or Momentary Mode.
- **CHAN BUTTON AND INDICATORS:** On the BP-2002 only. Allows the user to select which intercom channel is active. A yellow indicator light shows the active channel.
- **SIDETONE CONTROL:** The sidetone control adjusts your own voice level heard in the head phone. The sidetone control is accessible by removing the left screw of the belt clip. To adjust the sidetone level, tap the Talk button once to turn on the headset microphone. Then, using a flat blade screwdriver, increase or decrease your voice level while talking into the microphone.
- **CALL BUTTON AND INDICATOR:** The call function allows the user to send or receive signals to other devices on the intercom channel. The user can receive signals as well as send signals easily.



BP-1002



BP-2002



Specifications

GENERAL:

Power Requirements:

Channel supplied: 24 VDC nominal, 45 to 70 mA
 Local-power: (BP-2000 only) 24 VDC nominal (14 to 30 VDC),
 45 to 70 mA

Environmental Requirements:

Storage: -20°C to 80°C; 0% to 95% humidity, non-condensing
 Operating: -15°C to 60°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: 1.5 pounds (0.68 kg)

INTERFACE REQUIREMENTS:

Headset:

50 to 200 ohm dynamic microphone
 150 to 600 ohm headphones

Balanced Intercom Channel:

Output Level: 1 Vrms nominal
 Input Impedance: 300 ohm $\pm 5\%$
 Bridging Impedance: greater than 10,000 ohm
 Call Signalling:

Send: 20 kHz ± 100 Hz, 0.5 Vrms $\pm 10\%$
 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

Unbalanced Intercom Channel:

Output Level: 700 mVrms $\pm 10\%$
 Input Impedance: 200 ohm $\pm 5\%$
 Bridging Impedance: greater than 10,000 ohms
 Call Signalling:

Send: 12 ± 3 VDC

Receive: 4 VDC minimum

HEADPHONE AMPLIFIER:

Voltage Gain:
 27 ± 3 dB from the line
 Maximum Output:
 60 mW into 150 ohm
 Frequency Response:
 200 Hz to 8 kHz with no more than 4 dB deviation
 Audible Alert:
 1 kHz, at the headset
 Total Harmonic Distortion:
 Less than 2% at 50 mW from the line
 Sidetone:
 20 dB minimum range, adjustable

DYNAMIC MICROPHONE AMPLIFIER:

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

ELECTRET MICROPHONE AMPLIFIER:

Voltage Gain:
 Mic to Channel; 27 ± 3 dB, before limiting
 Mic to Headphone; adjustable, 45 dB $\pm 10\%$ into 150W
 Frequency Response:
 200 Hz to 8 kHz +1/-3dB
 Total Harmonic Distortion:
 Less than 1% at Channel output

Ordering Information

BP - 1002	1 channel select portable metal beltpack with call light; balanced and unbalanced mode operation.	Catalog No. 90007740000
BP - 2002	2 channel select portable metal beltpack with call light; balanced and unbalanced mode operation	Catalog No. 90007740010

For Sales / Technical Support and System Design:

Pro Audio Sales Department
 Telex Communications, Inc.
 12000 Portland Avenue South
 Burnsville, Minnesota 55337 U.S.A
 Telephone: (800) 392-3497
 Fax: (800) 323-0498

WARRANTY INFORMATION

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

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