

Product Spec Sheet from Rentex

Telex BP-1002 Single Channel Wired Intercom Backpack

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Rentex Product No. COMRTWP



Mfr Part No. F.01U.118.742

The Telex BP-1002 is a single-channel wired intercom backpack featuring a 3-pin XLR input/output configuration. These connections can be used in balanced or unbalanced situations, and the unit itself can pass power through to other backpacks, thus daisy-chaining devices in tandem.

Features

- Backpack for Single-Channel Intercom
- Talk-Button Activated Headset
- Sidetone Control for Self-Voice Level
- Call Function to Signal Other Users
- Clear-Com Compatible
- Supports Daisy-Chaining and Pass Thru

Detailed Specifications

Headset:

Impedance **Electret microphone:** 1000 to 3000 Ohms
Dynamic microphone: 50 to 200 Ohms
Headphones: 150 to 600 Ohms

Intercom:

Output Level **Balanced:** 1 Vrms nominal
Unbalanced: 775 mVrms $\pm 10\%$

Max Terminating Impedance **Balanced:** 300 Ohms $\pm 10\%$
Unbalanced: 200 Ohms $\pm 10\%$

Bridging Impedance **Balanced and unbalanced:** > 10 kOhms

Call Signaling **Balanced send:** 20 kHz ± 100 Hz, > 0.5 Vrms
Balanced receive: 20 kHz ± 800 Hz, 100 mVrms min
Unbalanced send: 12 ± 3 VDC
Unbalanced receive: 4 VDC min

Frequency **Mic-off frequency detect:** 24 kHz ± 800 Hz, 100 mVrms min

Noise **Contribution:** < -60 dBu on the line

Connector Types 1x 3-pin XLR female
1x 3-pin XLR male

Configuration **Balanced pin outs:** Pin 1: Common
Pin 2: Intercom audio low and +24 VDC input
Pin 3: Intercom audio high and +24 VDC input
Unbalanced pin outs: Pin 1: Common audio and power
Pin 2: +30 VDC input
Pin 3: Intercom audio

Controls and Indicators 1x Talk button
1x Call button
1x Volume knob
1x Talk LED indicator
1x Call LED indicator

Headphone Amplifier:

Maximum Output 3.5 $\pm 10\%$ Vrms into 150 Ohms headset

Frequency Response 200 Hz to 8 kHz ± 2 dB

Alert 1 kHz, at the headset

Total Harmonic Distortion $< 1\%$ at < 3.25 Vrms into 150 Ohms headset

Sidetone 17 dB minimum range, adjustable

General:

Power Requirements **Channel supplied:** 24 VDC nominal, 40 to 100 mA

Local-power: 24 VDC nominal (21 to 30 VDC), 40 to 100 mA

DC Current Requirements 45 to 70 mA

Dimensions (HxDxW) 5.0 x 3.5 x 1.8" / 127 x 88.9 x 45.7 mm

Weight 1.5 lbs / 0.7 kg