Telex[®]

Technical Data Sheet

US2002 User Station



The US2002 is a simple, multichannel user station. It provides you with talk, listen, and call capabilities. You simply plug it into any AC power outlet from 100 to 240 volts, add a microphone or headset, connect intercom stations to the back panel, and you're ready to communicate. Combine the US2002 with different types of power supplies to create various Master Station configurations. The US2002 can operate in an unbalanced mode to make it completely Clear-Com[®] compatible.

Features

- Speaker Station or Headset Station. Use the built-in speaker for listening and add an optional Telex MCP-90 series Gooseneck Panel Microphone for talk-back. Or, turn off the speaker volume, and plug in any of a variety of Telex headsets for private communication.
- Voice Activated Microphone (VOX). Separate controls adjust the voice activation level for the headset microphone and panel microphone inputs.
- Public Address (PA) Output, with PA key. Use your intercom microphone to talk over a PA system.
- Back-lit Keys: Improves visibility in low-light.
- Incoming Call Indications: Red flashing call light, with beep tone if desired.
- Mic Kill Key: You can turn off all microphones on a channel to quickly clear the channel.
- Program Input for Each Channel: Connect any line-level audio source for monitoring in the speaker or headset, or for routing to the intercom channel. The program audio to the channel can be set to interrupt while the US2002 operator is talking on the channel.
- Expandable: Add more channels by connecting optional ES4000A Expansion Stations. Each ES4000A adds four additional channels (up to eighteen channels).
- Clear-Com* Compatible.
- * Brand names mentioned are the property of their respective companies.





Specifications

General Power Requirements: Phantom Power: 24 VDC nominal Local Power: 12 to 15 VDC. 65 to 150 mA Dimensions: 1.75" (44.5 mm) high x 8.25" (209.5 mm) wide x 10.31" (261.9 mm) deep Weight: approximately 2lb (0.9 kg) **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-condensina **Dynamic-mic Headset** Microphone: 50 to 200 ohm, dynamic (balanced or unbalanced) Headphones: 150 to 600 ohm, monaural Connector Type: XLR-4M Pin 1 Microphone low Pin 2 Microphone high Pin 3 Headphone high Headphone low Pin 4 Panel Microphone or Electret-mic Headset Microphone: 5k ohm, electret (-57 dB) Headphones: 150 to 600 ohm, monaural Connector Type: MCP-90, stereo plug with threaded shaft connector **Program Input** Input Level: 100mV maximum Voltage Gain: 25 ±3 dB Output Level :1.0 Vrms nominal, 2.3 Vrms maximum Input Impedance: 75k ohm Common Mode Rejection: Greater than 50 dB Connector Type: DB9F Pin 1 Ground Pin 2 Program 1 input low Pin 3 Program 2 input low Pin 4 NC Pin 5 NC Pin 6 Program 1 input high Pin 7 Program 2 input high Pin 8 NC Pin 9 NC Intercom Channels, Balanced Mode (SW2 set to BAL position) Output Level: 1 Vrms nominal Input Impedance: 300 ohms Bridging Impedance: greater than 10,000 ohms Sidetone: -40 dB, 35 dB adjustable range Call Signaling: Send: 20 kHz ±100 Hz, 0.5 Vrms ±10% Receive: 20 kHz ±800 Hz, 100 mVrms Mic-Kill Frequency: Send: 24 kHz ±300 Hz, 0.5 Vrms ±10% Detect: 24 kHz ±800 Hz. 100 mVrms Noise Contribution: less than -70 dB

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

Common Mode Rejection Ratio: greater than 50 dB Connector Type: One XLR-3M and XLR-3F pair, wired in parallel, for each channel Pin 1 Common Pin 2 Intercom audio low and +24 VDC input Pin 3 Intercom audio high and +24 VDC input Intercom Channel, Unbalanced Mode (SW2 set to UNBAL position) Output Level: .750 Vrms ±10% Input Impedance: 200 ohms Bridging Impedance: greater than 10,000 ohms Call Signaling: Send: 11 ±3 VDC Receive: 4 VDC minimum Connector Type: One XLR-3M and XLR-3F pair, wired in parallel, for each channel Pin 1 Common Pin 2 +30 VDC input Pin 3 Intercom audio high PA Output Output Level: 235 mVrms nominal Connector Type: 1/8-inch Stereo Phone Jack Tip: PA output high Ring: Not used Sleeve: Common Speaker Output Output Level: 0 dB nominal (1.0 Vrms max) Output Impedance: 1000 ohms nominal Frequency Response: 200 Hz to 8 kHz +1/-3dB Connector Type: RCA Phono Jack Tip: Speaker output high Sleeve: Common **Expansion Input /Output** Type: 2.0 mm stereo phone jack Tip: Talk output Ring: Listen input Sleeve: Common External Power Type: 2.0 mm power jack Internal pin: positive (+) External shell: negative (-) **Headphone Amplifier** Voltage Gain: 30 ±3 dB Maximum Output: 250 mW ±10% into 150 ohms, 65 mW±10% into 600 ohms Frequency Response: 200 Hz to 8 kHz +1/-3db Incoming Call Beep Tone: 2 kHz, at the headphones Total Harmonic Distortion: Less than 0.2% at 200 mW Sidetone: 18 ±2 dB, adjustable **Panel Microphone Amplifier** Voltage Gains: Mic to CHN; 25±3 dB, before limiting Mic to Headphone; adjustable, 45 dB ±10% maximum, into 150 ohms Mic to PA; 15 ±3 dB, 235 mVrms ±10% Frequency Response: 200 Hz to 8 kHz +1/-3dB Total Harmonic Distortion: Less than 0.2% at CHN output

VOX Range: -75 to -30 dB, -60 dB factory set

Ordering Information

US-2002	2 channel, user /	Catalog No.
	main station	90007748000

