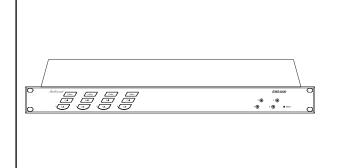
Telex®

Audiocom[®] EMS-4001 Four-channel Expansion Master Station and Power Supply



General Description

The EMS4001 adds four powered intercom channels to an MS2002 or US2002 Master Station. It connects to the master station with a supplied patch cord. Then, you simply plug it into any AC power outlet from 100 to 240 volts, connect intercom stations to the back panel, and you're ready to communicate on four more channels using the master station microphone and speaker (or headset). The EMS4001 fits in a standard 19-inch equipment rack and is 1 rack unit high.

Features

- SIMPLIFIED EXPANSION: The EMS4001 integrates four powered channels with talk, listen, and call controls in a single rack mount unit. Saves on rack mount hardware and eliminates power supply to expansion station interconnect cables.
- COMPATIBILITY AND FLEXIBILITY: Connects directly to an MS2002 or US2002 Master Station to add 4 complete powered channels. Or connects to a previous EMS4001 or ES4000A Expansion Station to add another 4 powered channels (up to 18 channels total).
- OVERLOAD/SHORT-CIRCUIT PROTECTION: Provides automatic current limiting during short circuits or overloads. Front panel fault indicator provided for each channel. The SPS-2001 has Instantaneous Auto Reset (IAR), the newest technology in performance and safety, which uses a revolutionary new circuitry that dynamically monitors line fault conditions.
- MIC KILL: Turn off all microphones on a selected expansion channel, or all channels, using the master station's Mic Kill key.
- DEDICATED PROGRAM INPUTS: Each expansion channel has its own program input. Connect any line-level audio source for monitoring in the master station's speaker or headset and for routing to the expansion channel if desired. When program audio is routed to the channel it can be set to interrupt while the master station operator is talking on the channel.
- BINAURAL (STEREO) LISTENING: If the master station is equipped with external powered speakers you can assign the EMS4001 channels to either right or left speaker.

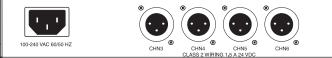
Specifications

General

Power Requirements: AC Input: 100-240 VAC, 50/60 Hz Channel Power: 24 VDC nominal (17 to 30 VDC), 65 to 150 mA Dimensions: 1.75" (44.5 mm) high x 19" (483 mm) wide x 10.31" (261.9 mm) deep Weight: approximately 4.5lb (2 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-condensing **Program Inputs** Input Level: 100mV maximum Voltage Gain: $25 \pm 3 \text{ dB}$ Output Level (to intercom channel) :1.0 Vrms nominal, 2.3 Vrms max. Input Impedance: 75 kohm Common Mode Rejection: Greater than 50 dB Connector Type: DB9F Female, 9-pin Dsubminature Pin 1: Common Pin 2: Channel 3 program in low Pin 3: Channel 4 program in low Pin 4: Channel 5 program in low Pin 5: Channel 6 program in low Pin 6: Channel 3 program in high Pin 7: Channel 4 program in high Pin 8: Channel 5 program in high Pin 9: Channel 6 program in high

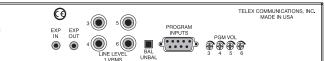
• CLEAR-COM[®] COMPATIBLE.





Intercom Channels, Balanced Mode (Back panel switch set to BAL)

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 $\pm 10\%$ Receive: $20 \text{ kHz} \pm 800 \text{ Hz}$. 100 mVrmsMic-Kill Frequency: Send: 24 kHz ±300 Hz, 0.5 Vrms ±10% Detect: 24 kHz ±800 Hz. 100 mVrms Noise Contribution: less than -70 dB Common Mode Rejection Ratio: greater than 50 dB Connector Type: One XLR-3M for each channel. **Balanced Configuration Pinout** 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 (UNBAL position)

Output Level: 0.750 Vrms $\pm 10\%$ Input Impedance: 200 ohms Bridging Impedance: greater than 10,000 ohms Call Signaling: Send: 11 ± 3 VDC Receive: 4 VDC minimum Connector Type: Uses same connectors as for balanced mode, above, but with pinout modified by BAL/ UNBAL switch on back panel as follows: **XLR-3** Unbalanced Configuration Pinout 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

Expansion Input /Output

Type: 2.0 mm stereo phone jack Tip: Talk output Ring: Listen input Sleeve: Common

Ordering Information

		Catalog No. 90007713000
	instantaneous auto reset in a single unit.	

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.

