

CS-702 Two-Channel Main Station

Analog Partyline Solutions

Linking
People
Together



CS-702

Key Features

- Supports up to 55 beltpacks or 7 speaker stations on 2 channels
- Automatic short-circuit protection and reset with LED indicators
- Dual-action electronic momentary/latching Talk buttons
- Mic- or line-level program with selectable Program Interrupt
- Remote Mic Kill
- Stage announce with relay
- Individual volume controls for each channel
- Front panel headphone connector
- Channel A & B Link switch to operate as a one-channel system
- Front panel speaker output
- LED buttons for Talk, Call, Announce, Link, All Talk, or Mic On

Clear-Com Encore® is a 2-wire analog partyline system with intuitive plug-and-play design and superior “Clear-Com Sound.”

Description

The CS-702 is a 2-channel compact main station that can monitor intercom activity on one or both channels with individual Listen Level controls. Monitoring intercom activity is possible through a headset, or external earphone or speaker. The CS-702 supports up to 55 beltpacks or 7 speaker stations.

Talk Selection

The CS-702 contains a mic preamp with limiter and proprietary speech-shaping circuits. An individual electronic momentary/latching Talk button is provided for each channel and light dimly when latched.

Call Signaling

The CS-702 provides individual Call buttons for each channel to signal all stations on the channel(s). When a remote station operator sends a Call signal, the CS-702's associated Talk button lights brightly, attracting the attention of an operator who have removed their headsets or turned off their speakers. Individual sidetone can be adjusted for each channel.

Remote Mic Kill (RMK)

Pressing the Remote Mic Kill button will turn off the microphone talk circuits of all beltpacks, eliminating noise from the open headset microphones.

Program Input

The CS-702 has a balanced, mic or line-level program signal for monitoring in the headset and/or mixing the intercom audio on one or both channels. The front panel provides a local Program Monitor volume control and individual Program Send level controls. It also provides a Program Send on/off/interrupt switch for each channel. When interrupt is selected, program is interrupted when the Talk button is pressed.

Power Supply and Supply System Protection

The CS-702 provides visual indication of power supply conditions. In the event of a short circuit or current overload, the CS-702's electronic overload protection circuit will shut down the output to avoid damage. As soon as the fault condition is removed, the auto-reset circuitry will automatically restore system power, even under full-load conditions. There is no need to disconnect stations to allow the power supply to reset.

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Technical Specifications

Microphone Pre-Amplifier

dBu is an absolute measurement. 0dBu is referenced to 0.775 volts RMS

Headset Microphone

Input Type: Dynamic
 Input Impedance: $\geq 1K$
 Mic Limiter Threshold: 0dBu $\pm 3dB$
 Mic Limiter Range: $\geq 15dB$

Program Line Input

Maximum Level before Clipping: $\geq 20dBu$
 Input Impedance: $\geq 5K$

Program Mic Input

Maximum Level before Clipping: $\geq -35dB$
 Input Impedance: $\geq 1K$

Headset Output

Load Impedance: ≥ 8
 Output Impedance: ≤ 25
 Output Limiter Threshold: +5dBu $\pm 3dB$
 Maximum Output Level before Distortion: $\geq 17dBu$

Partyline Output

O Noise: $< -74dBu$
 Output Impedance: $> 10K$

Partyline Input

Crosstalk: $< -60dB$
 Max level before Clipping: $\geq 12dBu$
 Sidetone Null Capability: $> 25dB$

Stage Announce/Balanced Line Out

Type: Balanced
 Output Impedance: ≥ 200
 Load Impedance: ≥ 600

Frequency Response

Headset Mic - Partyline : 200 - 18kHz $\pm 3dB$
 Headset Mic - Line Out: 200 - 18kHz $\pm 3dB$
 Program Input - Partyline: 200 - 20kHz $\pm 3dB$
 Program Input - Headset Out : 200 - 18kHz $\pm 3dB$
 Partyline - Headset Out : 200 - 18kHz $\pm 3dB$

Max Distortion

Headset Mic - Partyline: $\leq 0.5\%$
 Headset Mic - Line Out: $\leq 0.5\%$
 Program Input - Partyline: $\leq 0.2\%$
 Program Input - Headset Out: $\leq 0.2\%$
 Partyline - Headset Out: $\leq 0.2\%$

Noise

Headset Mic - Partyline: $< -70dBu$
 Program Input - Partyline: $< -85dBu$
 Program Mic - Partyline: $< -70dBu$
 Program Input - Headset Out: $< -60dBu$
 Program Mic - Headset Out: $< -40dBu$
 Partyline - Headset Out: $< -50dBu$

Max Gain

Headset Mic - Partyline: 41dB $\pm 2dB$
 Headset Mic - Announce Out: 55dB $\pm 3dB$
 Program Input - Partyline: $\geq -16dB$

Program Mic - Partyline: 41dB $\pm 2dB$
 Program Input - Headset Out: $\geq 18dB$
 Program Mic - Headset Out: $\geq 70dB$
 Partyline - Headset Out: $\geq 34dB$

Mains Power

Input Voltage Range: 100 - 240V AC
 Input Frequency Range: 50 - 60Hz
 Input Power: $\leq 60V AC$
 Output Voltage: 30V DC $\pm 0.5V$
 Output Current per Channel (Continuous): 1.2A

Output Current per Channel

(Peak): 2A (Do not exceed the 1.2A rating for more than 2 seconds per 1 minute period)
 Short Circuit Recovery Time (1st short): $\leq 0.5 sec$
 Short Circuit Recovery Time ≥ 20 shorts in 20sec: $\leq 20 sec$

Environmental

32° - 122°F (0° - 50°C)

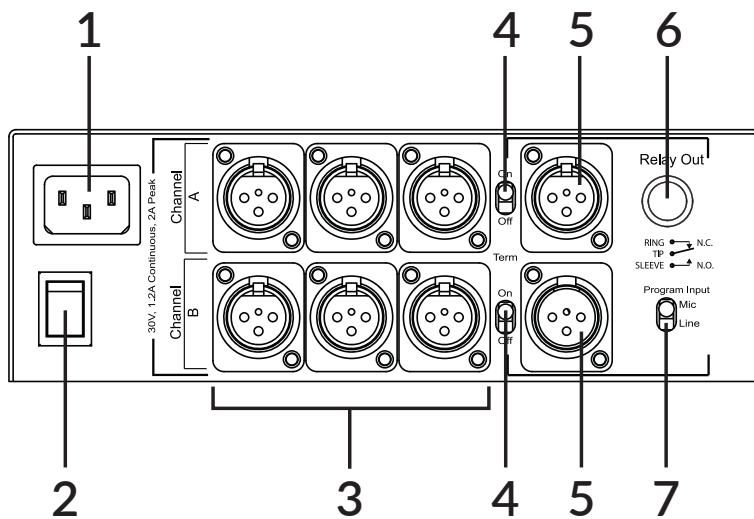
Dimensions

3 x 8.5 x 10in (HxWxD)
 (76 x 216 x 254mm)

Weight

5.0lbs (2.3kg)

CS-702 Back Panel



Legend

Back Panel

1. Power connector
2. Power On/Off switch
3. Channel Intercom connectors
4. Channel Termination switches
5. Program In
6. Relay Out
7. Program Input switch

Order Code

CS-702



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