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RM-702 Two-Channel Remote Station

Analog Partyline Solutions

Linking People Together



RM-702

Key Features

- Selectable one- or two-channel communication
- Momentary/latching talk buttons
- Individual call buttons
- Visual call signaling
- Balanced audio input with program interrupt (IFB)
- Hot mic and line-level outputs
- Studio announce output with relay
- Optional plug-in gooseneck mic
- Wide-range, high-output speaker
- LED buttons for Talk, Call, Announce

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

Description

The RM-702 is a 1RU two-channel remote station with programmable front panel buttons and individual channel volume control. The RM-702 is powered directly from the intercom line and requires no external AC power. Unlike the MS-702, the RM-702 has no power supply, circuit breaker or linking function.

Monitoring System

The RM-702 can monitor intercom activity on one or both channels with individual volume level controls. Monitoring intercom activity is possible through a headset or the internal high sensitivity loudspeaker.

Talk Selection

The RM-702 has mic pre-amps with limiters. An individual electronic momentary/latching Talk button is available for each channel. Illuminated dual-action Talk buttons light an LED dimly when latched: blue-color while in standby, amber-color when latched. The latching feature can be disabled. The channels can be accessed separately or simultaneously without tying them together. A selector switch toggles between the headset or microphone. The Talk buttons can also be controlled with a footswitch.

Call Signaling

The RM-702 features individual call buttons and visual call signaling to attract the attention of operators who have removed their headsets or turned o their speakers. The visual signal flashes the illuminated Talk button when a call is received. The call signaling feature can be programmed to the Talk buttons.

Program Interrupt (IFB)

The RM-702 accepts either a balanced or unbalanced line-level audio input through the DB-15 connector on the rear panel. The program can be monitored at the station or fed into another channel where it can also be set up for IFB/Program Interrupt from this or any other station.

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RM-702 Two-Channel Remote Station

Analog Partyline Solutions

Technical Specifications

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

Panel Microphone Input
Input Type: Electret
Input Impedance: >=2K
Mic Limiter Threshold: 0dBu ±3dB
Mic Limiter Range: >= 20dB

Headset Microphone Input
Input Type: Dynamic
Input Impedance: >= 1K
Mic Limiter Threshold: 0dBu ± 3dB
Mic Limiter Range: >= 15dB

Program Line Input
Maximum Level before Clipping: >= 20dBu
Input Impedance: >= 5K

Headset Output
Load Impedance: >= 8
Output Impedance: <= 25
Output Limiter Threshold: +5dBu ± 3dB
Maximum Output Level before Distortion: >= 17dBu

Speaker Output
Load Impedance: >= 4
Max Output Level before 1% Distortion: 20dBu ± 2dBu

Partyline Output
Output Noise: < -74dBu
Output Impedance: >10K

Partyline Input
Crosstalk: < -60dB
Max level before Clipping: >= 12dBu
Sidetone Null Capability: > 25dB

Stage Announce/Balanced Line Out
Type: Balanced
Output Impedance: >= 200
Load Impedance: >= 600

IFB/Hot Mic
Type: Unbalanced
Output Impedance: 180
Load Impedance: >= 600

Frequency Response
Panel Mic - Partyline: 600 - 10kHz ± 3dB
Headset Mic - Partyline: 200 - 12kHz ± 3dB
Headset Mic - Line Out: 200 - 12kHz ± 3dB
Program Input - Partyline: 100 - 17kHz ± 3dB
Program Input - Headset Out: 200 - 10kHz ± 3dB
Program Input - Speaker Out: 300 - 10kHz ± 3dB
Partyline - Headset Out: 200 - 10kHz ± 3dB
Partyline - Speaker Out: 300 - 10kHz ± 3dB

Max Distortion
Panel Mic - Partyline: <= 0.5%
Headset Mic - Partyline: <= 0.5%
Headset Mic - Line Out: <= 0.5%
Program Input - Partyline: <= 0.2%
Program Input - Headset Out: <= 0.2%
Program Input - Speaker Out: <= 0.5%
Partyline - Headset Out: <= 0.2%
Partyline - Speaker Out: <= 0.5%

Noise
Panel Mic - Partyline: < -65dBu
Headset Mic - Partyline: < -70dBu
Headset Mic - Line Out: < -55dBu
Program Input - Partyline: < -85dBu
Program Input - Headset Out: < -60dBu
Program Input - Speaker Out: < -60dBu
Partyline - Headset Out: < -50dBu
Partyline - Speaker Out: < -50dBu

Max Gain
Panel Mic - Partyline: >= 37dB
Headset Mic - Partyline: 41dB ± 2dB
Headset Mic - Hot Mic Out: 55dB ± 3dB
Headset Mic - Announce Out: 55dB ± 3dB
Program Input - Partyline: >= -16dB
Program Input - Headset Out: >= 18dB
Program Input - Speaker Out: >= 24dB
Partyline - Headset Out: >= 34dB
Partyline - Speaker Out: >= 40dB

Min Gain
Panel Mic - Partyline: <= 25dB

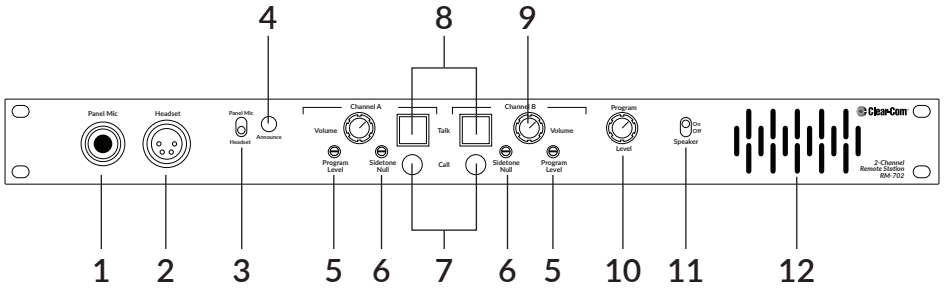
Power
Input Voltage Range: 20-30V DC
Input Current (Idle): <= 90mA
Input Current (Max): <=110mA

Environmental
32° - 122°F (0° - 50°C)

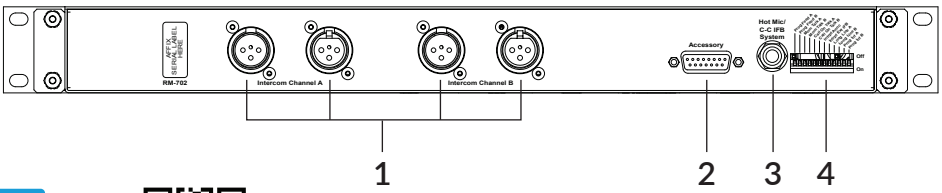
Dimensions
1.75 x 19 x 7.0in (HxWxD)
(44 x 483 x 178mm)

Weight
5.2lbs (2.4kg)

RM-702 Front Panel



RM-702 Back Panel



Legend

Front Panel
1. Microphone connector
2. XLR-4M Headset connector
3. Mic Selector Switch
4. Announce button
5. Program Level control
6. Sidetone Null control
7. Call buttons
8. Talk buttons
9. Volume control
10. Program level control
11. Speaker ON/Off switch
12. Loudspeaker

Back Panel
1. Intercom Channel connectors
2. AUX connector
3. Hot Mic/IFB Output
4. Dip Switches

Order Code

RM-702

www.clearcom.com/
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WARNING: Cancer and Reproductive Harm - **www.P65Warnings.CA.Gov**

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