

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

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 off 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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Technical Specifications

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

Panel Microphone Input

Input Type: Electret
Input Impedance: $\geq 2K$
Mic Limiter Threshold: 0dBu \pm 3dB
Mic Limiter Range: ≥ 20 dB

Headset Microphone Input

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

Program Line Input

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

Headset Output

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

Speaker Output

Load Impedance: ≥ 4
Max Output Level before 1% Distortion: 20dBu \pm 2dBu

Partyline Output

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

Partyline Input

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

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 \pm 3dB
Headset Mic - Partyline: 200 - 12KHz \pm 3dB
Headset Mic - Line Out: 200 - 12KHz \pm 3dB
Program Input - Partyline: 100 - 17KHz \pm 3dB
Program Input - Headset Out: 200 - 10KHz \pm 3dB
Program Input - Speaker Out: 300 - 10KHz \pm 3dB
Partyline - Headset Out:

200 - 10KHz \pm 3dB

Partyline - Speaker Out: 300 - 10KHz \pm 3dB

Max Distortion

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

Noise

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

Max Gain

Panel Mic - Partyline: ≥ 37 dB
Headset Mic - Partyline: 41dB \pm 2dB
Headset Mic - Hot Mic Out: 55dB \pm 3dB
Headset Mic - Announce Out: 55dB \pm 3dB
Program Input - Partyline: ≥ -16 dB
Program Input - Headset Out: ≥ 18 dB
Program Input - Speaker Out: ≥ 24 dB
Partyline - Headset Out: ≥ 34 dB
Partyline - Speaker Out: ≥ 40 dB

Min Gain

Panel Mic - Partyline: ≤ 25 dB

Power

Input Voltage Range: 20-30 VDC
Input Current (Idle): ≤ 90 mA
Input Current (Max): ≤ 110 mA

Environmental

32 - 122°F (0 - 50°C)

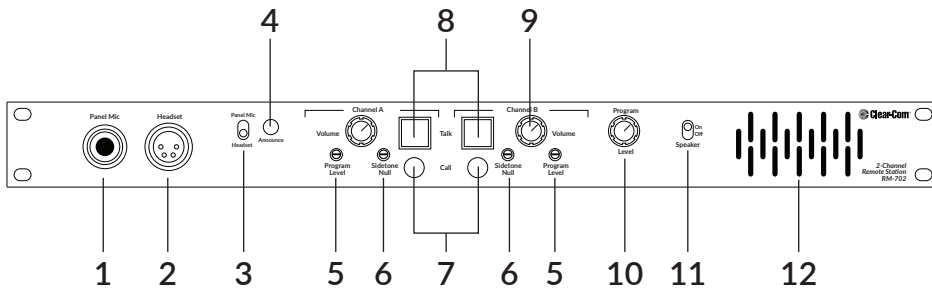
Dimensions

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

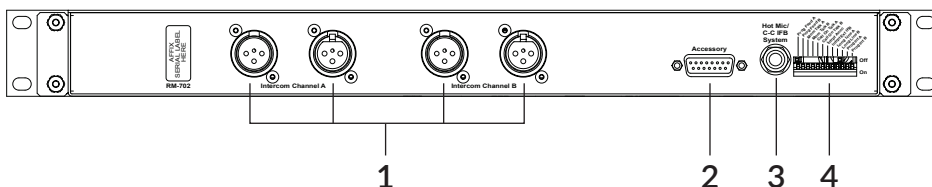
Weight

5.2 lbs (2.4 kg)

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