

# RM-802-IM Two-Channel Remote Station

Industrial and Marine Analog Partyline Solutions

Linking  
People  
Together



RM-802-IM

## Key Features

- Selectable one- or two-channel communication
- IP-20 environmental rating
- Asbestos-free in accordance with SOLAS Regulation II-I/3-5.2
- Marine Certification compliant with DNVGL-CG-0339 (2016)
- 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

Industrial and Marine products for use in harsh environments, certified in accordance with DNVL-CG-0339, with Compass Safety Distance conformity, and asbestos-free.

## Description

The RM-802-IM is a 1RU two-channel remote station with programmable front panel buttons and individual channel volume control. The RM-802-IM is powered directly from the intercom line and requires no external AC power. Unlike the MS-802-IM, the RM-802-IM has no power supply, circuit breaker or linking function.

## Monitoring System

The RM-802-IM 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-802-IM 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-802-IM 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.

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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:  $\geq 20dB$

### Headset Microphone Input

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:  $\geq 5K$

### Headset Output

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

### Speaker Output

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

### Partyline Output

Output 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:  $\geq 200$   
Load Impedance:  $\geq 600$

### IFB/Hot Mic

Type: Unbalanced  
Output Impedance: 180  
Load Impedance:  $\geq 600$

### 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:  $< -65dBu$   
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:  $\geq 37dB$   
Headset Mic - Partyline:  
 $41dB \pm 2dB$   
Headset Mic - Hot Mic Out:  
 $55dB \pm 3dB$   
Headset Mic - Announce Out:  
 $55dB \pm 3dB$   
Program Input - Partyline:  
 $\geq -16dB$   
Program Input - Headset Out:  
 $\geq 18dB$   
Program Input - Speaker Out:  
 $\geq 24dB$   
Partyline - Headset Out:  
 $\geq 34dB$   
Partyline - Speaker Out:  $\geq 40dB$

### Min Gain

Panel Mic - Partyline:  $\leq 25dB$

### Power

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

### Environmental

$32 - 122^{\circ}F (0 - 50^{\circ}C)$   
Relative Humidity: 0 - 96%,  
non-condensing  
Vibration Frequency Range:  
 $2 - 13.2 Hz$   
Amplitude: 1.0 mm  
Peak Value Frequency Range:  
 $13.2 - 100 Hz$   
Acceleration Amplitude: 0.7 g  
EMC: DNVGL-CG-0339 - Class B  
Enclosure: IP-20

### Dimensions

$1.75 \times 19 \times 7.0$  in (HxWxD)  
( $44 \times 483 \times 178$  mm)

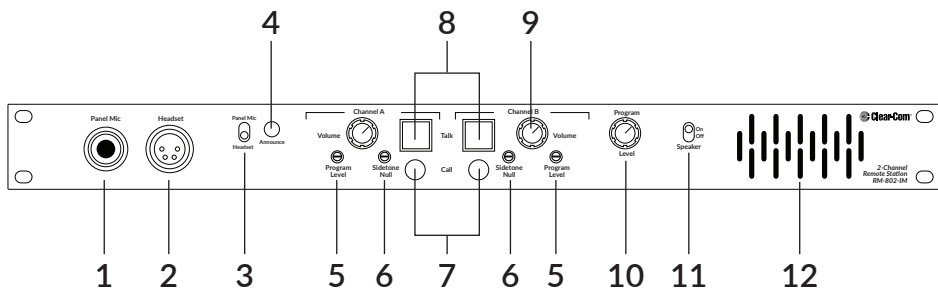
### Weight

5.2 lbs (2.4 kg)

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## RM-802-IM Front Panel

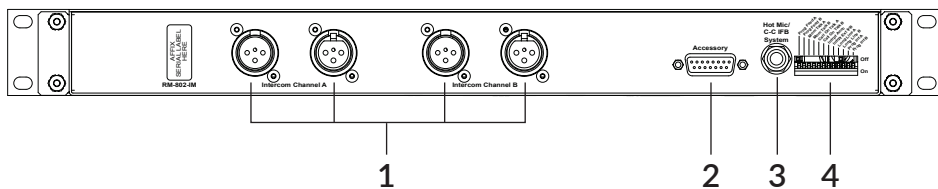


## Legend

### 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

## RM-802-IM Back Panel



### Back Panel

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

## Certifications and Compliance

This device complies with part 15 of the FCC Rules.

This device complies with European Union CE Mark:

- Electromagnetic Compatibility Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- RoHS Directive 2011/65/EU
- Standards: EN 55032, EN 55024, EN 60950-1, EN 50581

This device complies with Maritime Certification:

- Conformity with DNVGL-CG-0339 Edition November 2016
- Asbestos-free in accordance with SOLAS Regulation II-I/3-5.2
- Compass Safety Distance conformity per DNVGL-CG-0339 and IEC 60945



## Order Code

RM-802-IM