

## WM-1000 and WM-2000 Wall Mount Intercom Systems

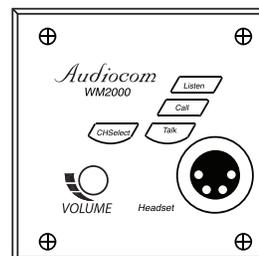
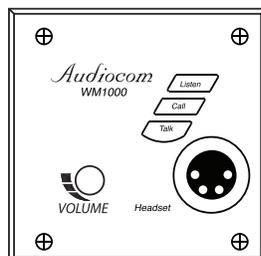
The WM-1000 and WM-2000 Intercom Stations are designed for stationary, wall mounted installation in standard two-gang electrical boxes. The WM-1000 is a single-channel station; the WM-2000 provides switch selectable access to either of two (2) intercom channels. The WM-1000 and WM-2000 are ideal when users need to access the intercom system from strategic locations where a desktop station would be unsuitable, but they do not wish to carry around a belt-pack station. Since all of the intercom electronics are in the intercom station, the user need only connect a headset or telephone style handset to begin communicating.



## Features

- Channel Select Switch (WM-2000 Only) – Used to switch between intercom channels one (1) and two (2). The switch lights green for channel one and red for channel two (2).
- Intercom Listen Key – Both momentary (push-to-listen) and latching (hands-free listen) are possible.
- Call Key – used to send call signals on the intercom channel and to indicate incoming calls.
- Intercom Talk Key – Both momentary (push-to-talk) and latching (hands-free talk) are possible. Additionally, the WM-1000/WM-2000 have a feature called “mic kill receive” which lets an operator at a remote master station (such as the US-2002) turn off the talk key.
- Dynamic-Mic Headset Connector – 4-pin male XLR connector accepts headsets with monaural headphones and either a balanced or unbalanced dynamic microphone.
- Volume Control – Adjusts intercom volume to headset.
- RTS Audiocom/Clear-Com Selector Switch – The selector switch sets the intercom station for compatibility with either RTS Audiocom or Clear-Com channel connector pin-outs, channel power requirements, and call signaling requirements.
- Configuration DIP switches – DIP switches are provided to enable/disable the following features: Call Beep: An optional call beep tone can be used for incoming call notification. Headset Microphone Type Selection: Balanced or unbalanced microphone may be selected. DC Call Enable: This may be turned on to use the intercom station with intercom systems that use DC call signaling.
- Connections Terminal Block – Used to connect intercom channel(s) and an optional local power supply.
- Sidetone Trimmers – These are used to adjust the level of the station operator’s own voice in the headphone
- Mounting Holes – The mounting holes fit any standard, two-gang electrical box.
- Clear-Com Compatible

## Line Drawings



# Specifications

## General

### Power Requirements:

Phantom Power:..... 24 VDC nominal (18 to 30 VDC),  
65 to 150 mA

Local Power: ..... 15 VDC, 65 to 150 mA

Dimensions: ....Mounts in standard two-gang electrical box

### Environmental Requirements:

Storage: ..... -20°C to 80°C; 0% to 95% humidity,  
noncondensing

Operating: .....0°C to 50°C; 0% to 95% humidity,  
noncondensing

## Dynamic-mic Headset

Microphone: ..... 50 to 200 Ω, dynamic (balanced or  
unbalanced)

Headphones: ..... 150 to 600 Ω, monaural

Connector Type: ..... XLR-4M

Pin 1 ..... Microphone low

Pin 2 ..... Microphone high

Pin 3 ..... Headphone high

Pin 4 ..... Headphone low

## Intercom Channels, Balanced Mode (SW1 set to BAL position)

Output Level: ..... 1 Vrms nominal

Input Impedance: ..... 300 Ω

Bridging Impedance: ..... >10k Ω

Sidetone: ..... -40 dB, 35 dB adjustable range

### Call Signaling:

Send: ..... 20 kHz ±100 Hz, 0.5 Vrms ±10%

Receive: ..... 20 kHz ±800 Hz, 100 mVrms

Mic-Kill Detect Frequency: .... 24 kHz ±800 Hz, 100 mVrms

Noise Contribution: ..... <-70 dB

Common Mode Rejection Ratio: ..... >50 dB

Connector Type: ..... Six-position terminal block  
with screw-in wire clamps

Pin 1 ..... Audio and DC Common

Pin 2 ..... Local power (12 to 15 VDC, 65 to 150 mA)

Pin 3 ..... Intercom channel 1 audio low  
and +24 VDC phantom power

Pin 4 ..... Intercom channel 1 audio high  
and +24 VDC phantom power

Pin 5 ..... Intercom channel 2 audio low  
and +24 VDC phantom power

Pin 6 ..... Intercom channel 2 audio high  
and +24 VDC phantom power

## Intercom Channel, Unbalanced Mode (SW1 set to UNBAL position)

Output Level: ..... 1 Vrms ±10%

Input Impedance: ..... 200 Ω

Bridging Impedance: ..... >10,000 Ω

### Call Signaling:

Send: ..... 11 ±3 VDC

Receive: ..... 4 VDC minimum

Connector Type: ..... Six-position terminal block  
with screw-in wire clamps

Pin 1 ..... Common

Pin 2 ..... Local power (15 VDC, 65 to 150 mA)

Pin 3 ..... Channel 1 +30 VDC input

Pin 4 ..... Channel 1 Intercom audio high and DC call

Pin 5 ..... Channel 2 +30 VDC input

Pin 6 ..... Channel 2 Intercom audio high and DC call

# Order Information

- WM-1000 • Wall-Mount Intercom System
- WM-2000 • Wall-Mount Intercom System

For ordering information, contact your regional sales representative at:  
<http://rtsintercoms.com/us/intercom/contact>

The specification information is preliminary and is subject to change without notification.  
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