



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

The WM1000 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 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. Alternatively, a headset or telephone handset can be left at the station.

### Features

#### Channel Select Switch (WM-2000 Only)

Used to switch between intercom channels one and two. The switch lights green for channel one and red for channel two.

#### 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.

#### Audiocom<sup>®</sup> / Clear-Com<sup>™</sup> Selector Switch

The selector switch sets the intercom station for compatibility with either Audiocom<sup>®</sup> or Clear-Com<sup>™</sup> 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

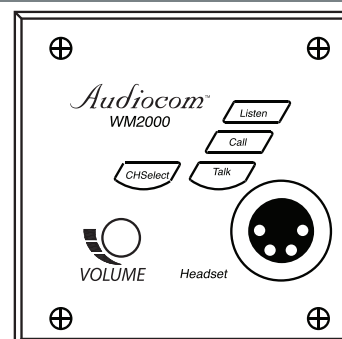
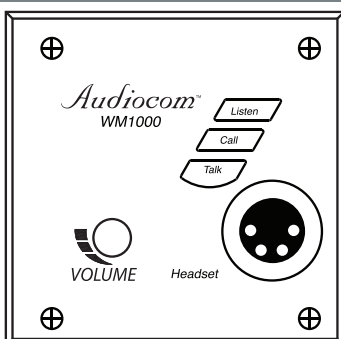
These are used to adjust the level of the station operator's own voice in the headphones.

#### Mounting Holes

The mounting holes fit any standard, two-gang electrical box

#### Clear-Com<sup>™</sup> Compatible

### Line Drawings



# WM-1000 and WM-2000 Specifications

## General

### Power Requirements:

Phantom Power: 24 VDC nominal (12 to 30 VDC),  
65 to 150 mA

Local Power: 12 to 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, non-  
condensing

Operating: -15°C to 60°C; 0% to 95% humidity, non-  
condensing

## Dynamic-mic Headset

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

Headphones: 150 to 600 ohm, 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 ohms

Bridging Impedance: greater than 10,000 ohms

Sidetone: -40 dB, 35 dB adjustable range

Call Signaling:

Send: 20 kHz  $\pm$ 100 Hz, 0.5 Vrms  $\pm$ 10%

Receive: 20 kHz  $\pm$ 800 Hz, 100 mVrms

Mic-Kill Detect Frequency: 24 kHz  $\pm$ 800 Hz, 100

mVrms

Noise Contribution: less than -70 dB

Common Mode Rejection Ratio: greater than 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  $\pm$ 10%

Input Impedance: 150 ohms

Bridging Impedance: greater than 10,000 ohms

Call Signaling:

Send: 11  $\pm$ 3 VDC

Receive: 4 VDC minimum

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

Pin 1 Common

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

Pin 3 Channel 1 +24 VDC input

Pin 4 Channel 1 Intercom audio high and DC call

Pin 5 Channel 2 +24 VDC input

Pin 6 Channel 2 Intercom audio high and DC call

## Contact Information

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Form Number: 38109-717  
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## Ordering Information

**WM-1000** • Wall-Mount Intercom System • Catalog  
Number: 90007621000

**WM-2000** • Wall-Mount Intercom System • Catalog  
Number: 90007621001

This specifications information is preliminary and is subject to change without notification.  
Brand names mentioned are the property of their respective companies.