

## ICA-202 TWO CHANNEL AUDIO INTERCOM AMPLIFIER

The ICA-202 is the most powerful Audio Intercom available; yet it is also the easiest to integrate into your design. With 20 watts of clean audio power at 25-Volts it can do both the Intercom and the Paging functions in most facilities. Designed for integration in "Push To Talk" applications, where the remote speaker is also the microphone, it has everything you need and nothing to get in the way.

The audio quality of the ICA-202 is superb. Noise and distortion are very low. Selectable equalization optimizes voice communications. The Automatic Level Control assures optimum performance. There are separate controls for Audio Level, and Reach. Once set, the Audio Level remains constant over a wide dynamic input range. The independent Reach Control allows for optimized accommodation of the input signal level. The user may wander throughout the room and still be heard at a nearly constant level without any operator adjustments!

Privacy tone to alert the remote party that someone is listening to them is available as an internal jumper option. If selected the privacy tone will sound every 20 seconds unless the PTT is pressed.

Electronic switching takes less than 3mS. Setup indicators make adjustments easy. Audio Switching Delay is adjustable to eliminate the reverberation in difficult hard acoustic places like holding cells.

The logic interface is PLC compatible with "Edge Triggering" if required. Input control options include PTT, Mute, Activate, Shut Off, and Call Tone which is automatically routed to the operator speaker. Line level outputs for recording are included for both the Remote and Operator channels. The Indicators are comprehensive, yet simple.

The unit is small; mounting is flexible and easy. Power is from a Universal Plug-in DC power adapter (sold separately) or screw terminals are provided for connection of your own power supply. All I/O is through Euro-Style connectorized barrier strips.

### BENEFITS

- Very Versatile
- Easy to use
- High Quality Audio
- Automatic Level Control
- Push To Talk
- Very Fast Simplex Operation
- Solid State Switch <3mS
- Integral Privacy and Call-Tones
- Recording Outputs
- 20-Watts of true Audio Power

### Design Information

Dual Channel Universal Audio Intercom Amplifier

Inputs: R.F. and static electricity protected

Outputs: short circuit protected

Frequency Response: 250 Hz to 14KHz

Remote Speaker Output: 20-Watts RMS Sine Wave output into 25 Volt transformer loads (Balanced)

Operator Speaker Output: 5 Watts into 25 Volt speaker Distortion at Full Rated Output < 1% T.H.D

Microphone Inputs:

1000 Ohms Balanced or 500 Ohms Unbalanced

-76dBm minimum input for full rated output

Selectable Equalization - 3 settings optimized for voice communication

Selectable Phantom Power (10 Volts)

Color: Light Gray metal enclosure

Power: 24VDC, 2A Power Supply (sold separately)

Weight: 3 lbs.

Dimensions: 8.5" W X 1.75" H X 6" D

## Tech Works™

"Making Specialized Communication Easy"

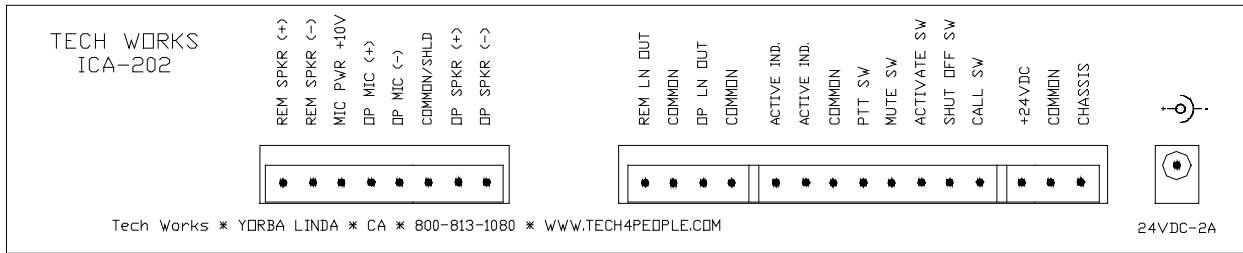
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## REAR CONNECTIONS



### Audio Connections:

Remote Speaker (+ & -)  
 Microphone Power  
 Operator Microphone (+ & -)  
 Shield (Common)  
 Operator Speaker (+ & -)

Remote Channel Line Output (Recording)  
 Operator Channel Line Output (Recording)

### Logic Control Inputs:

Ground sensing for Buttons, or PLC  
 Push-to-Talk (PTT)  
 Mute  
 Activate  
 Shut Off (Lowest Priority)  
 Call Tone (to Operator Speaker) (only active when intercom is “Off” and automatically stops when intercom goes “Active”)

### Logic/Indicator Outputs:

For use with External LED indicators or PLC inputs  
 Operator and Remote Activity Indicators

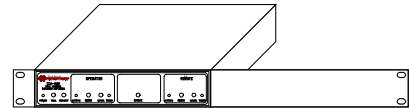
Three mounting options are available as standard configurations.



Desk Mount (DM)  
ICA-202-DM



Wall Mount (WM) (Under Counter)  
ICA-202-WM



Rack Mount (RM)  
ICA-202-RM

### Architects' and Engineers' Specifications

The Dual Channel Audio Intercom Amplifier shall have two completely separate and discrete audio processing channels. The unit shall include all switching and logic control for push to talk (PTT) operation. An integral privacy tone shall be available and jumper selectable to alert the remote party that they are being monitored. All logic controls including PTT, Mute, Activate, Shut Off, and Call Tone shall be available on the rear panel screw terminals. All logic and control connections shall be fully PLC compatible ground sensing. Microphone inputs shall be 1000 ohms balanced, -76dBm, with phantom power. The Remote Speaker Power Amplifier shall deliver 20 watts continuous power into 25 Volt loads at less than 1% total harmonic distortion. The Amplifier shall include line outputs for recording all communication without custom assemblies.

The Dual Channel Audio Intercom Amplifier shall be Tech Works Model ICA-202