

## Features

- **Includes Two Bi-directional 600Ω to 33Ω Audio Interfaces in One Compact Unit**
- **Enables GAI-TRONICS Page/Party®, SmartSeries and ICS Systems to be Interfaced with a Wide Range of 600Ω Paging and Audio Systems**
- **Universal AC (85-264V) or 24V DC Operation**
- **Two Independent Conversion Circuits, One for Party Lines and One for Page Lines**
- **Individual Gain and Sidetone Adjustment for Each Audio Path**
- **VOX Detection on 33Ω and 600Ω Interface for Activating a Receiving Amplifier**
- **33-ohm Termination Internal to Unit**
- **Simplified Installation and Commissioning**



The **Model 370-301 Dual Channel 600-Ohm to 33-Ohm Audio Interface** allows GAI-TRONICS' Page/Party® systems to connect with standard 600Ω networks for one- or two-way communication between dissimilar transmission mediums.

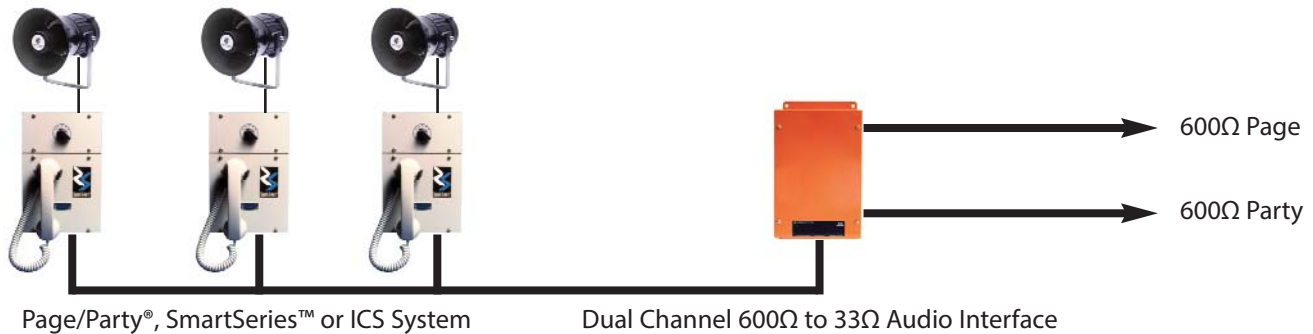
Suitable 600Ω systems include central amplifiers, PABX paging ports, Programmable Logic Controller (PLC) alarm outputs, and computer sound cards.

Each channel is not just a matching transformer; it also includes gain adjustments that compensate for differences in signal levels. This permits use with a wide range of different 600Ω paging and audio systems.

The dual channel audio interface includes two hybrid interfaces in each channel to isolate the audio so that the received audio in one direction does not affect the transmit audio in the other direction.

The dual channel audio interface also includes a VOX (voice activated switch) on each output. In the presence of audio, a relay is activated. This relay can be used to activate systems where a "push-to-talk" operation is required.

### Typical Application



### Specifications

#### AC/DC Power

##### AC Power Supply

Input Voltage .....	120/230 V ac (nominal), 50/60 Hz
Power factor @ nominal 120 V ac .....	0.98
Current draw @ nominal 120 V ac .....	100 mA

##### DC Power Supply

Input Voltage .....	12-24 V dc
Current draw @ nominal 12 V dc .....	175 mA
Current draw @ nominal 24 V dc .....	130 mA

#### 33Ω Audio Output

Output with 1.0 V <sub>RMS</sub> at 600Ω input.....	1.5 V <sub>RMS</sub> , factory aligned; 2.3 V <sub>RMS</sub> maximum
Distortion .....	<1.5% @ 1 kHz
Sidetone .....	-30 dB factory aligned
VOX threshold .....	>150 m V <sub>RMS</sub>
VOX activation time .....	<50 milliseconds
VOX hold time .....	>4 second

#### 600Ω Audio Output

Output with 1.5 V <sub>RMS</sub> at 33Ω input.....	1.0 V <sub>RMS</sub> , factory aligned; 1.3 V <sub>RMS</sub> maximum
Distortion .....	<1.0% @ 1 kHz
Sidetone .....	-30 dB factory aligned
VOX threshold .....	>200 m V <sub>RMS</sub>
VOX activation time .....	<50 milliseconds
VOX hold time .....	>3.5 second

#### Relay Outputs

Maximum load .....	2 A @ 30 V dc
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#### Mechanical

Construction/finish .....	16 gauge cold-rolled steel; safety orange powder coating
Mounting .....	Indoor wall or column; four 0.31-inch mounting holes
Dimensions .....	14.50 × 8.31 × 5.26 inches (368.3 × 211.1 × 133.6 mm)
Shipping Weight .....	10.5 lbs (4.76 kg)
Net Weight.....	9.5 lbs (4.31 kg)