

# Innovative Industrial Solutions



I.I.S.

## Telex SSA-324 Analog System-to-System Adapter



The Model SSA-324 is a System to System Adapter (or interface). It interconnects the voice signals between different intercom systems. In addition, it can optionally interconnect "Calls" or tally signals between systems. Each SSA-324 includes two two-wire to four-wire converters. The four-wire interface can deliver and accept high level signals. An SSA-324 can also function as a two-wire to two-wire interface by interconnecting the two individual interfaces at the four-wire level. The SSA-324 does two voice channels when used as a dual two-wire to four-wire interface, and one voice channel when functioning as a two-wire to two-wire interface.

- Functional Specifications
- Ducking (Bilateral)
- Monitoring
- Nulling
- Level Adjustments

Innovative Industrial Solutions, Inc.

2830 Skyline Drive Russellville, AR 72802

Phone (479) 968-4266

Fax (479) 890-9072

[www.i-i-s.net](http://www.i-i-s.net)

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## Telex SSA-324 Analog System-to-System Adapter

### Two-Wire Input

Impedance: 5,000Ω +1a%, -20% single ended, 10,000Ω +100%, -20% differential

Operating Levels: -20 dBu to +0 dBu, nominal

### Two-Wire Output

Impedance: 5,000Ω 20% single ended, 10,000Ω 20% differential

Operating Level: 0.1 mA to 10 mA, nominal

### Four-Wire Input

Impedance: 10,000Ω minimum single ended, 20,000Ω minimum differential

operating Levels: -10 dBu to +8 dBu, nominal

### Four-Wire Output

Impedance: single ended or differential

Operating Levels: -10 dBu to + 8 dBu, nominal

### Transfer Functions (Duck Level set to no ducking)

Voltage Gain, Four-Wire In to Two-Wire Out\*

Level Pot 100% rotation: 3 dB

Level Pot 50% rotation: -15 dB 4 dB

Transfer Functions (Duck Level set to no ducking)

Voltage Gain, Two-Wire In to Four-Wire Out\*\*

Level Pot 100% rotation: 22 dB 3 dB

Level Pot 50% rotation: 8 dB 4 dB

### Frequency Response (Reference: 1 KHz, 0 dBu input)

Four-Wire Input to Two-Wire Output: 200 Hz to 5 KHz, +1,-4 dB, typical

Two-Wire Input to Four Wire Output: 250 Hz to 5 KHz, +1, -4 dB, typical

Signal-to-Noise Ratio (Reference: 1 KHz, 0 dBu at two-wire)

Two-Wire to Four-Wire: -60 dB

Four-Wire to Two-Wire: -60 dB

Crosstalk (Reference: 1 KHz, 0 dBu)

System A to System B,

Two-wire to Two wire

200 Hz to 5 KHz: -50 dB,

### Environmental

Temperature

Operating: 0.0 to 50° Celsius

Storage: -40° to 85° Celsius

Humidity: 0 to 95%. non-condensing

### Mains Voltage

Standard: 120 volts 10%, 50-60 Hz

\*P Option: 230 volts 10%, 50-60 Hz

#D Option: 100 volts + 10%. -5%,  
50-60 Hz

### Mains Amperes

Standard: 0.20A @ 120 volts 10%,  
50-60 Hz

\*P Option: 0.10A @ 230 volts 10%. 50  
-60 Hz

#D Option: 0.22A @ 100 volts +10%,  
-5%. 50-60 Hz

### Dimensions

1.72" ( 44mm) high, 8.19" (208mm)  
wide, 8.00"

(204mm) deep

### Weight

SSA-324: 2.75 lbs (1.3 kg)

MCP-1: 1.0 lbs (0.45 kg)

MCP-2: 1.0 lbs (0.45 kg)

### Finish

Thermoplastic front panel, aluminum  
case, light gray finish.

### Nulling:

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