

**Multi-Point Local Intercommunication System
Model A301-138-()****Model A301-138**

The A301-138-() is a self-contained Local Intercommunication System which provides a dedicated interphone line for up to 12 aircraft passengers with 8 ohm headsets. This local interphone can be set up to access the aircraft Intercommunication System by installation of a cable which plugs into the 8 ohm headset connection at any Intercommunication Control System station.

FEATURES AND OPTIONS

When connected to the aircraft intercommunication system, access to the main system can be enabled or disabled by an Interface Switch. A toggle switch on the side of the housing serves this function. The switch can also be wired from a connector on the housing to a more convenient location or to multiple locations, for installations where the Multi-Point unit is not easily accessible by the crew. If the aircraft connection is disabled, the Local Interphone is isolated from the main system and the host station will operate like any other ICS station. With the connection enabled, the host station connects to the Local Interphone and interaction with the main system is controlled by the host station switch settings.

The A301-138-() is available with 4, 6, 8, 10, or 12 points of attachment for personnel headsets, in addition to providing a headset connection for the host ICS station. This system can be expanded by plugging one A301-138-() into another, creating an extended Local Interphone where each unit can be separated into a private group by the Interface Switch.

Andrea Systems produces and supplies all of the cables required by the Multi-Point System, including the PTT cables.

Inquire for product availability to support other headset types.

C46-5468 Rev 3

SPECIFICATIONS*

PHYSICAL CHARACTERISTICS

- Size: 15 inches by 2.75 inches high less connectors, by 5.75 inches wide including flanges.
- Weight: Less than 4.0 lbs.

ENVIRONMENTAL

- MIL-E-5400 CLASS 1
- Continuous Operating Temperature: -54° C to +55° C
- Intermittent Operating Temperature: +55° C to +71° C
- EMI: MIL-STD-461F
- Lightning: RTCA DO-160F, A2G22

MATING CONNECTORS

- The Power Cable provides a MS3456W16-11P connector for aircraft power.
- The Aircraft Interface Cable connector MS3476W10-6P mates to an on aircraft ICS headset connector, MS3470W10-6S.
- PTT Headset Cables mate to MS3470W10-6S on the Multi-Point Unit. The M9177/5-2 PTT unit provides a MIL-C-9177 four conductor jack for a headset.

POWER REQUIREMENTS

- Input Power: 27.5 VDC, (22 to 29 VDC)
- No Signal: 7W
- 350 mW Headset Output for 13 Headsets: 40 W

VOLTAGE LEVELS

- 5 ohm Mic Input: 0.1 to 4.0 mVrms
- Headset Output: 1.67 Vrms

IMPEDANCES

- Microphone Input: 5 ohms
- Headset Output: 8 ohms

MICROPHONE AMPLIFIER PERFORMANCE

- Distortion: 3% Max. @ 0.6 mVrms In
5% Max. @ 4.0 mVrms In
- Frequency Response: +1/-2 dB 300 to 6000 Hz
- AGC: Maintains constant output for wide variations in input

HEADSET AMPLIFIER PERFORMANCE

- Distortion: 5% Max.
- Frequency Response: +1/-2 dB 300 to 6000 Hz

SIGNAL ISOLATION AT 1KHz

- Audio Lines: -60 dB below 50 mW

* Specifications subject to change without notice.

C46-5468 Rev 3

ANDREA SYSTEMS LLC

140 Finn Court, Farmingdale, New York 11735

PRELIMINARY

Andrea Systems LLC
www.Andreasystems.com
Phone: (631) 390-3140
Fax: (631) 390-3150