ANDREA SYSTEMS LLC

Product Specification

Intercommunication System Control Model A301-61



Model A301-61

THIS UNIT IS USED ON THE FOLLOWING AIRCRAFT:

• S-76 Helicopter

FACILITIES AND OPERATING CONTROLS

All operating controls are mounted on the front panel.

TALK OPERATION: A seven-position rotary selector switch provides for selection, control, and voice modulation of six transmitters. The extreme CCW position of the selector provides intercommunication on the Interphone line.

NOTE: Intercommunication can be obtained for any selector position when the control is wired for two-button operation.

PUBLIC ADDRESS OPERATION: A momentary push-button switch provides for the operators voice signals to be applied through a 4 watt amplifier to a speaker in the cabin.

MONITORING: Ten monitor switches provide for individual selection and mixing of 10 audio input lines. A direct input line for warning signals is also provided.

LEVEL ADJUSTMENT: A master volume control permits adjustment of the headset level.

TRANSMITTER AUDIO LEVEL ADJUSTMENT: Six internal controls permit individual adjustment of the voice modulation level to each of the six associated transmitters.

LINE TERMINATIONS: Six resistors are included in the A3O1-61 for use as audio input line terminations.

OPTIONS: Cockpit voice recorder, Night vision capability

Andrea has TSO-C50b CAT CAAAXX authorization for the A301-61.

DESCRIPTION AND USE

The A3O1-61 is a versatile, miniature solid state Intercommunication system control. It is designed to be the basic control unit for a multi-position (up to 12) intercommunication system of advanced design. It is a high reliability unit employing solid-state relay circuits and modular microphone, headset, and speaker amplifiers.

The A301-61 has great flexibility. It will provide specified performance from a 5 ohm Dynamic Microphone or a 100-ohm carbon microphone and an 8 ohm or 600 ohm headset.

C46-5377 Rev B

ANDREA SYSTEMS LLC

Andrea Systems LLC
140 Finn Court, Farmingdale, New York 11735
www.Andreasystems.com
Phone: (631) 390-3140
Fax: (631) 980-9682

GENERAL CHARACTERISTICS

Connector	• • • • • • • • • • • • • • • • • • • •
INPUT POWER at 28 VDC INPUT No. Signal	4.5 Watts Max.
SIZE:	, -
IMPEDANCE LEVELS Microphones. Headsets. Speaker. Int. Line. Transmitter Output. Receiver Lines	5 ohms Dynamic or 100 ohm Carbon 8 ohms or 600 ohms 8 ohms 600 ohms, internally furnished 100 ohms (supplied by aircraft installation) 600 ohms, Rec. 1-4 internally furnished
FACILITIES Intercommunication. Transmitters. Receivers. Receiver. Volume Control.	On Int. Line 6 9 - Controlled by switches 1 - Direct input 40 dB Range from Max. Audio Output
MICROPHONE AMPLIFIER PERFORMANCE AGCAGC ATTACK TIMEAGC SLOPE. DISTORTION:	.2 Sec Max.
HEADSET AMPLIFIER PERFORMANCE Distortion	
ISOLATION AT 1000 Hz Between Input Lines or Output Lines	60 dB Min.
POWER OR VOLTAGE LEVELS 5 ohm Microphone 100 ohm Carbon Microphone Int. Line Transmitter Lines Receiver Lines Handset Out Speaker	.1 to 1 mV .1 to 1 Volt 2.8 V Adjustable .1 to 1 Volt 4.5 Volts 250 mW Max. 4 Watts Max.