ANDREA SYSTEMS LLC

Product Specification

Intercommunication System Control Model A301-61B-1



Model A301-61B-1

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: Eight monitor switches provide for individual selection and mixing of 8 audio input lines. A direct input line for warning signals is also provided.

AUXILIARY TALK: With the talk switch in the AUX position, the microphone amplifier and voltage regulator are replaced by auxiliary units.

AUXILIARY LISTEN: With the LISTEN switch in the AUX position, the audio outputs of the receivers are connected directly to the headset through the monitor switches. A priority system is included so that the operator can only listen to one receiver at a time.

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 A3O1-61B-1 for use as audio input line terminations.

AUTOMATIC HOT-MIC: Momentary operation of the two-button (Interphone) talk switch puts the A3O1-61B-1 into the Hot-Mic (hands free operation) on the interphone line. The control is taken out of Hot-Mic by actuating the one-button (radio) talk switch.

OPTIONS: Cockpit voice recorder, Night vision capability

Andrea has TSO-C50b CAT CAAAXX authorization for the A301-61B-1.

DESCRIPTION AND USE

The A3O1-61B-1 is 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 A3O1-61B-1 has great flexibility. It will provide specified performance from a 5 ohm Dynamic Microphone or a 10O-ohm carbon microphone and an 8 ohm or 60O ohm headset.

The A3O1-61B-1 incorporates auxiliary talk and listen switches to permit emergency operation in the event of a malfunction of either the headset or microphone amplifiers.

C46-5379 Rev B

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GENERAL CHARACTERISTICS

POWER Input Voltage No. Signal 250 mW Headset Output 4 Watt, Speaker, Output	3 Watts Max. 4.5 Watts Max.
Size. Weight. Lighting. Connector. Mating Connector.	1.75 lbs. 2 - 6 V lamps @ .215 Amps 50 pin Cannon DD50P
IMPEDANCE LEVELS Microphones. Headset. Speaker. Int. Line. Transmitter Output. Receiver Lines.	8 ohms or 600 ohms 8 ohms 600 ohms, internally furnished
SIGNAL LEVELS AGC. AGC Attack Time. AGC Slope. Distortion. Headset Amplifier - Output. Distortion. Frequency Response.	.2 Sec Max. 3 dB Max output change for 20 dB input change 3% Max. 250 mV 10% Max.
Transmitter Lines Speaker Amplifier Output Volume Control Range Isolation @ 1000 Hz.	4 Watts 40 dB