### ANDREA SYSTEMS LLC

## Product Specification

# Intercommunication System Control Model A201-12



Model A201-12

#### **FACILITIES AND OPERATING CONTROLS**

All operating controls are mounted on the front panel.

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

HOT MIKE OPERATION: A HOT MIKE talk switch provides HOT MIKE operation on the Interphone Line.

MONITORING: Seven monitor switches provide for individual selection and mixing of nine audio inputs. One switch controls three inputs.

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

OPTIONS: Night vision capability

#### **DESCRIPTION AND USE**

The A201-12 is a miniature, lightweight, self-contained solid state Intercommunication System Control. It is designed to be the basic control unit for a two or three position Intercommunication System of advanced design. In addition to intercommunications and radio monitoring facilities, the control provides for selection, control, and modulation of radio transmitter for communications with airborne, ground, or mobile station.

The A201-12 contains modular microphone and headset amplifiers.

Andrea has FAA certification TSO-C50b for the A201-12.

C46-5371 Rev C

ANDREA SYSTEMS LLC

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#### **TSO INFORMATION**

Short time operation high temp ...... +71° C

Operating temp ...... -54° C to +55° C

Vibration Cat A is for rotary wing aircraft is:

0.030" displacement from 10 to 55 Hz, max 5 G acceleration

5 G constant acceleration from 55 Hz to 500 Hz

Audio Freq Magnetic field susceptibility Cat A is:

Equipment exposed to 400 Hz current of 20 A 12 inches away

RF Susceptibility Cat A is:

Per FAA Environmental Test Procedures for Airborne Electronic Equipment (August 31, 1962) and includes Radiated and Conducted tests, but the levels do not translate to current definitions, require specific antennas.

Emission of spurious RF energy category A is:

Per FAA Environmental Test Procedures for Airborne Electronic Equipment, August 31, 1962, and includes Radiated and Conducted tests, but the levels do not translate to current definitions, require specific antennas

Explosion category E is:

Mil-C-9435 test chamber with 100/130 Octane gasoline

Humidity (48 Hour)

Shock

Power Input Test

Low Voltage Test

Conducted Voltage Transient

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#### **GENERAL CHARACTERISTICS**

Mean time Between Failure. Input Voltage. Input Power. Weight. Size. Lighting.	27.5 VDC (21-29 V) 5 W Max. 1.85 lbs. maximum 5-3/4" W x 3" H x 5-1/2" D
ENVIRONMENTAL Temperature Continuous Operation Intermittent Operation	
IMPEDANCE LEVELS  Microphone Input	150 ohms load 150 ohms load
POWER LEVELS Microphone Input. Int. Talk-out. Transmit Talk-out. Receiver Input. Headset Output.	.75 V +/-20% 2.75 V +/-15% 50 mW (2.75 V)
MICROPHONE AMP PERFORMANCE AGC	3 dB Max. output change for 20 dB input change 0.2 Sec. maximum 7 Sec. +/-20 %
HEADSET PERFORMANCE DistortionFreq. ResponseRipple	·
ISOLATION AT 1 KHz Open Monitor Switch	-60 dB below 50 mW