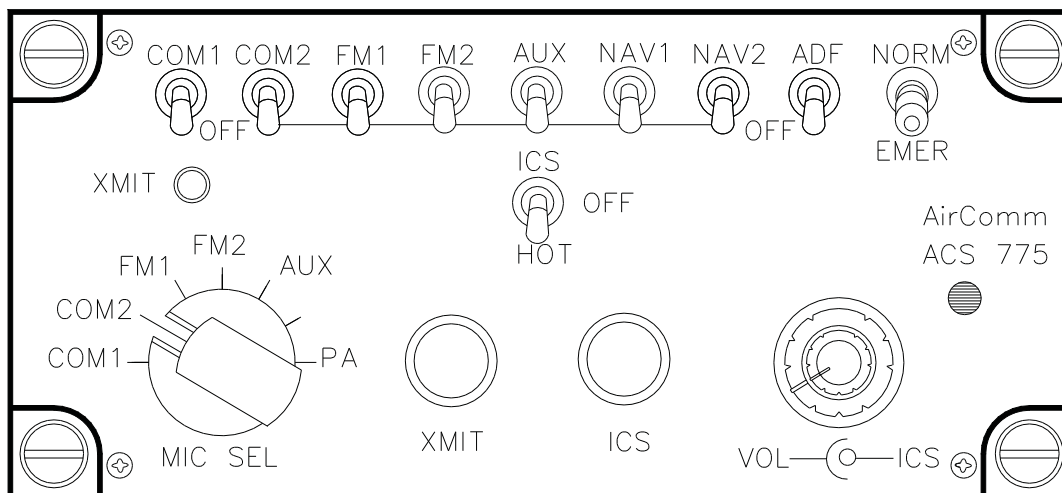


Air Comm Systems, Inc.

Single Audio Mixer Panel Installation and Operations Manual

ACS 775



AirComm

Airborne Audio Products

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ACS 775 Installation and Operations Manual

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ACS 775 Installation and Operations Manual Physical and Operating Specifications

■ Physical Specifications

- 250 mW power output
- 500mA @28VDC
- Lightweight - 2.00 lb (.90 kg)
- Lighting - MIL-P-7788 Type 3/5
- Dimensions - refer to outline

■ Product Features

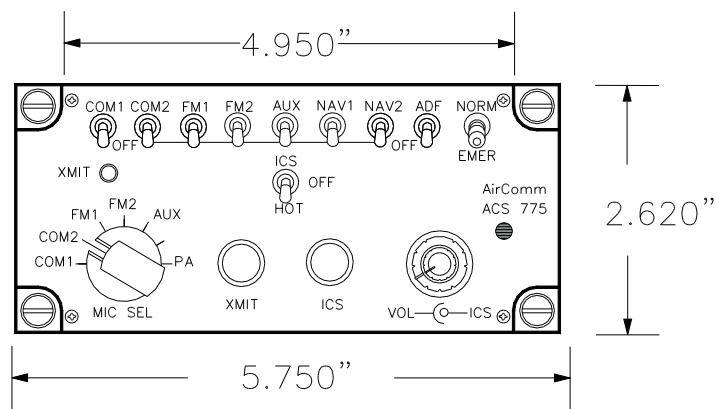
- PTT and HOT ICS modes
- Integrated ICS and TX PTT Switches
- 6 Transmit positions plus PA
- 8 Receive Audio selections plus 1 non-selectable input
- ICS Bus/RX audio for passenger expansion
- Emergency mode operation
- Internal interface for non-aircraft radios
- 14 or 28VDC operation
- Custom panel legends
- Color coded knobs and toggle switches
- Connector installation kit (crimp) included
- 1-Year Full Warranty
- Approved for use on USFS contracts

ACS 775 Installation and Operations Manual

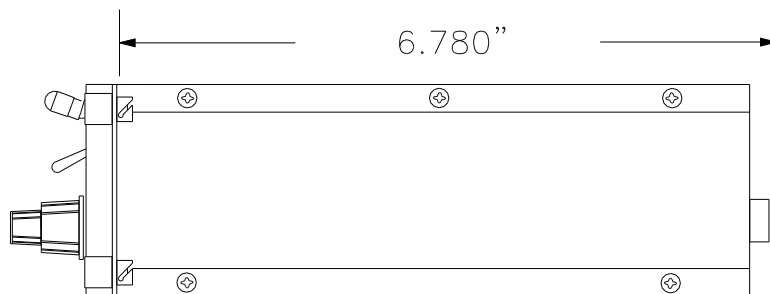
Physical Dimensions

■ Physical Dimension Outline for mounting

UNIT WIDTH BEHIND FACE PLATE



FRONT PANEL WIDTH – STANDARD DZUS MOUNT



Physical Installation

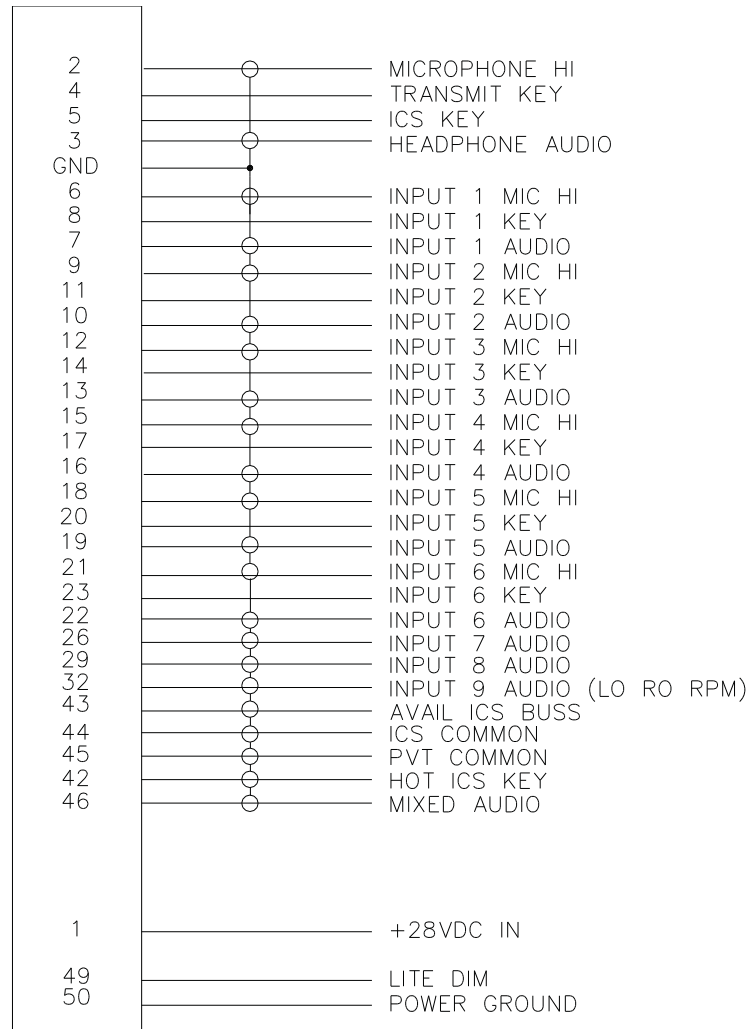
The ACS 775 is designed to be Dzus mounted and should be installed in the aircraft using the Installation kit that is included. The above outline drawing of the unit with dimensions will facilitate the installation.

The connector pin configuration of the ACS 775 rear connector and the recommended wire size for the aircraft cable harness is shown on the following page. Be sure that adequate clearance is allowed for the rear connector and cable harness.

ACS 775 Installation and Operations Manual

Interface Schematic

■ Connector Pin-out



The ACS 775 wiring harness should be constructed of Tefzel aircraft wire (M22759/16 grade). Power and ground wires should be 20 AWG, and all other wires may be 22 AWG. Shielded wires should be used where noted. Adequate protection against wear and chafing should be taken by using a braided cable sleeving or jacket. Before completing installation, verify that all cable connector pins are seated properly and that the connector is securely mounted to the unit mating connector.

Pre-fabricated cable harnesses are available from Air Comm to expedite installation — consult our sales department for details.

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Front Panel Controls

1- NORM - EMER SWITCH

This switch controls the operation of the audio panel in the event of an audio amplifier failure. In the "up" position (NORM) the audio panel is in normal operating mode. In the "down" position (EMER) all audios are summed and then fed directly to the headphones. This enables the use of the transmitters and other equipment during audio amplifier failure.

2 - RECEIVE AUDIO SELECT-MUTE SWITCHES

Normal operation - In the "up" position the audio selected is channelled to its proper headphone. In the "down" position the audio selected is muted.

Emergency operation - In the "up" position the audio selected is muted. In the "down" position the audio selected is summed with any other audios selected and then sent to the headphone.

3 - VOLUME CONTROLS

These concentric knobs adjust headphone volume. The larger one adjusts the radio volume while the smaller one adjusts the intercom volume. Clockwise rotation increases the volume - counter clockwise rotation decreases the volume. In the event of excessive or inadequate receiver volume the pots located on the rear of the unit may be adjusted for the proper level.

4 - LIGHTING

The audio panel is lit by two 28V lamps which provide night time visibility for all panel legends.

ACS 775 Installation and Operations Manual Front Panel Controls (cont'd)

5 - MIC SELECTOR

This rotary switch performs three functions simultaneously. It (a) connects the mic to the selected transmitter (b) selects the associated keyline, and (c) selects the associated audio (if not already selected using the audio select-mute switch).

6 - TRANSMIT INDICATOR

When the transmit key is activated this indicator lights up show that the audio panel is in the transmit mode.

7 - ICS SWITCH

This switch selects the ICS mode. In the “ up ” position the audio panel is connected to the common ICS buss. This enables the audio panel to communicate with any other audio panels also connected to the common ICS buss. In the “center” position (OFF) the audio panel is disconnected from all other panels.

In the “down” position (HOT ICS) the headphone mic becomes active and its signal is fed into the ICS buss without having to depress the ICS key switch. This provides for “ hands-off ” ICS operation.

ACS 775 Installation and Operations Manual Warranty Information

■ Warranty Information

Air Comm Systems, Inc. warrants each new product to be free from defective material and workmanship and agrees to remedy any defect or to furnish a new part in exchange for any defective unit provided an examination discloses such defect occurred under normal use and service, and provided the defective unit is delivered to us, with transportation charges prepaid, within 1 year from the date of acceptance of equipment by the owner. Each unit required and claimed defective must be returned to:

Air Comm Systems, Inc.

1640 W. Acoma Blvd., Suite A-118
Lake Havasu City, AZ 86403
Attn: Service Dept.

Phone (928) 854-5402
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This warranty does not extend to any products which have been subjected to misuse, neglect, accident, or in violation of instructions furnished, nor does it extend to units which have been repaired or altered outside of our factory except where such repairs are specifically authorized in writing by us.

This warranty is in lieu of all other warranties expressed or implied, and no representative or person is authorized to assume for us any other liability in connection with the sale of our products.