

PMA5000EX

For Experimental Aircraft Only



Taking the designs we have created for our certified aircraft, PS Engineering designed an audio panel with plenty of capability but at an incredibly low price. This panel was designed specifically for the experimental and LSA owners.

Without the traditional functions such as Marker Beacon Receiver, Speaker Amplifier, as well as avoiding the costs of certification, the PMA5000EX provides an unprecedented level of price/performance for the homebuilt.

Sporting a four-place IntelliVox® hi-fi stereo intercom, the world-renown automatic VOX makes inter-cockpit communications completely seamless. With two types of music distribution, four kinds of music muting, and with "Softmute"™ technology, the PMA5000EX provides the flexibility that homebuilders are seeking.

Some experimental aircraft have a significantly higher cabin cockpit din than others, the PMA5000EX IntelliVox® has a configurable "Extreme Noise Capability Mode" making it unlikely that the IntelliVox would trigger prematurely.

The dedicated front panel volume control of music input #1 makes changing the entertainment volume level as easy as pushing up or down on the dedicated music buttons.

The pilot can select between two music distribution modes. Standard music distribution sends music 1 to the Crew and music 2 Passengers. Alternate which sends music 1 to all headsets in ALL mode and when in Crew mode, music 2 turns on for the passengers.

The PMA5000EX has a new innovation from PS Engineering. Aux 1 and Aux 2 switched inputs can be turned on and off like traditional switched inputs, or with an additional push of the button, the selected audio goes off-line for 60 seconds. This function is useful in cases where the audio is an alert that has been recognized, but becomes annoying. After 60 seconds, the audio is restored.

A new "Monitor" (Mon) mode has been added. When selected, the audio from the Com receiver that is not selected for transmit will automatically mute when the selected primary radio audio becomes active. In this way, the pilot may listen to AWOS on Com 2, but prevents the AWOS audio from interfering with the primary Com audio which is typically ATC.

The new PMA5000EX is a direct replacement for the GMA240.

CHECKLIST OF FEATURES:

- IntelliVox® automatic VOX system with selectable "Extreme Noise Capability"
- Cellular telephone input with "DuTel" distribution
- Monitor Mode allows automatic muting of non-primary radio
- Front panel utility jack for phone, iPod, or for unswitched audio warnings
- Split mode for dual audio panel capability
- Two Differential, hi-fi stereo music source inputs reduce electrical noise
- Three Isolation modes - Pilot Isolate, All, and Crew
- Four music mute modes: Mute On/Off, Radio Mute, Intercom Mute
- Five unswitched inputs, with front panel unswitched input
- Dedicated front panel music volume control
- Selectable music distribution for passengers
- Two Front panel switched inputs (Aux 1 and 2) with selectable 60 second auto-mute mode

TECHNICAL SPECIFICATIONS

Approval Basis	None
Certification Documents	The PMA5000EX is intended for Experimental Aircraft ONLY
Intercom	4-place Stereo
Transceivers	4 - Com 1, Com 2, TEL, Com 1/2
Receiver Inputs	6 - Nav 1, Nav 2, ADF, AUX, DME, MKR
Marker Beacon	None
Unswitched inputs	4
Power Required	11-33 VDC, 2.5 A
Power consumption	Speaker on, 600mA typical. 1A peak Speaker off, 350 mA
Output power	
Headphone:	50 mW into 150Ω w/o clipping 38 mW into 150Ω, <1% distortion
Audio Frequency Response	±3dB, 300Hz-6,000Hz
Entertainment Frequency Response	±3dB, 20Hz-18,000 Hz
Weight	2.0 lbs.
Dimensions	6.25" W x 1.3" H x 7.15" deep behind instrument panel
Environmental Conditions	None
Temperature Range	-15 C to +55 , with brief operation at +70 C
Altitude	50,000 feet, unpressurized

WARRANTY

1-year Pro-Support exchange program, when installed by an authorized PS Engineering Dealer. After the warranty expires, a fixed repair fee will cover any repair. See Warranty Information in Installation manual.

ORDERING INFORMATION

PART NO.

PMA5000EX - Audio Selector Panel with 4-Place Intercom050-550-0200