

ADVANCED AUDIO CONTROL SYSTEM



What do you do when you have the best audio panel in the world? You make it better! After nearly four years of production of the PS Engineering flagship PMA7000M-S, the company has rolled a number of product options into a new unit. Called the PMA7000B, this version incorporates the most requested features of the PMA7000M-S and PMA7000MS-CD.

Featuring our IntelliVox®, each of the 6 microphone circuits are monitored by a microprocessor, discerning the difference between voice and noise. The instant the protocol recognizes a voice it instantly opens up the microphone, eliminating the frustration of clipping the first syllables. This automatic VOX system completely eliminates the need for manually adjusting VOX squelch knobs.

The all push-button control for the transceivers adds flexibility to the product while reducing complexity.

Among the features incorporated in the PMA7000B is the ability to interface with AirCell as well as almost any cellular telephone that allows the use of a hands free device. The use of cellular telephones is legal on the ground. Now the pilot or copilot can have the convenience of making private phone calls using their headset, or join in a party line call with the passengers. Private

and party line calls can be made depending upon the configuration of the two on/off hook switches installed in the aircraft.

In addition, individual volume controls are now provided to allow the crew and passengers to fine-tune their own intercom volume.

With the advent of more and more audio outputs now available to the pilot, we have added two more un-switched inputs, making a total of four. These are available to provide critical audio inputs, such as traffic or ground proximity warning, as well as GPS and autopilot alerts. Historically audio panels only had two, which limited the flexibility in additional equipment.

The optional Digital Recorder Aural Warning System (DRAWS) is also available.

This internal system allows the recording of all aircraft radio receptions and transmissions automatically. Additionally, a six channel annunciation system provides the pilot of voice warnings of out of limit conditions, such as oil pressure, fuel flow, and manifold pressure, to name a few.

And we are providing more capability than ever before at a lower cost, making the PMA7000B perfect for the 172 to the Beech Baron. It will nicely top off your avionics, providing you with the very best in cockpit audio.

PS Engineering offers an exclusive 3-year ProSupport warranty when installed by an authorized dealer.

PMA7000B Features

- Push button control for ease of use and conventional appearance
- IntelliVox® intercom for 6 place, expandable to 12 places
- Full duplex mode for AirCell® or other wireless telephones
- Pin compatible replacement for KMA24
- Plug-and-play for all PMA7000-series panels
- 3 transceiver capable
- Split modes for Com 1, 2 and 3
- Patented Swap Mode
- Dual and independent music input with SoftMute™
- Dual volume controls for crew and passenger control
- Optional Digital Recorder Aural Warning System

SPECIFICATIONS

| Mode | Pilot Hears | Copilot Hears | Passengers Hears | Comments |
|---------|---|---|---|---|
| Isolate | A/C Radio (Pilot sidetone only during radio xmt) | Passengers Music #1 | Copilot Passengers Music #2 | This mode allows the pilot to communicate with the ground without the copilot or the passengers hearing the conversation. Copilot and passengers can continue to communicate with themselves. |
| All | A/C Radio Copilot Passengers Music #1 | A/C Radio Pilot Passengers Music #1 | Passengers A/C Radio Pilot, Copilot Music #2 | This mode allows the pilot, the copilot and passengers to communicate with each other. All will hear aircraft radio. Music is muted (lowered in level) during intercom or radio communications. Music and intercom are disabled during radio transmissions. |
| Crew | A/C Radio Copilot Music #1 | A/C Radio Pilot Music #1 | Passengers Music #2 | The Crew mode affords the pilot and copilot the ability to work the aircraft radios while the passengers can communicate with themselves while not disturbing the crew. |

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| Approval Basis | C35d Class A, C50c-Class A |
| Certification Documents | RTCA DO-160C, DO-178B, DO-143, DO-214 |
| Intercom | 6-place Stereo |
| Transceivers | 3 - Com 1, Com 2, Com 3 (or Tel Duplex) |
| Receiver Inputs | 5 - Nav 1, Nav 2, ADF, AUX, DME |
| Marker Beacon | Internal |
| Un-switched inputs | 4 |
| Power Required | 11-33 VDC, 1.5 A |
| Power consumption | Speaker on, 600mA typical. 1A peak Speaker off, 350 mA |
| Output power: Speaker Headphone: | 3 W into 4Ω (14V) 10W into 4Ω (28V) 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 | 1.5 lb. |
| Dimensions | 6.25" W x 1.3" H x 6.8" deep behind instrument panel |
| Environmental Conditions | DO-160C A1D1/CA(MN)XXXXXXBBBBTBKXX |
| Temperature Range | -15 C to +55 , with brief operation at +70 C |
| Altitude | 50,000 feet, unpressurized |
| Marker Receiver | 75 MHz crystal controlled receiver |
| External Marker | Lights and MM sense output |

No one knows audio control like PS Engineering™

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Manufactured in U.S.A.

Specifications subject to change without notice

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The PMA7000B comes with a 3 year limited warranty, valid only if installed by an authorized PS Engineering Dealer.
PS Engineering makes no express or implied warranty regarding the suitability of split mode in all aircraft.
Manufactured under US Patents 4941187, 5903277, 6160496 and others pending