FAA-Approved STEREO PANEL MOUNT INTERCOM

The world's first stereo intercom to be FAA-TSO approved, the PM 3000 brings new heights to audio performance, at a reachable price. With a simplified interface, it clearly outperforms its more difficult to use competitors.

Available in 4- and 6-place versions, the PM3000 can be configured to meet almost any general aviation aircraft requirement.

The 4-place PM3000 (p/n 11931) has two modes, ALL and ISO.

The ISO mode isolates the pilot from the passenger intercom, and connects directly with the aircraft radios. The passengers are free to have conversation, without radio interruption. The pilot is not distracted by passenger intercom use and has control over the radio communications.

The "ALL" mode places everybody on a party line. Each person hears all intercom conversation and aircraft radio reception. Everyone hears stereo entertainment as well.

The PM3000 6-place (p/n 11932) intercom includes a "CREW" mode. In CREW mode, the pilot and copilot are on one intercom channel, while the passengers have conversation on another. In this mode, two independent music inputs are active. The pilot and copilot listen to Beethoven, as the passengers listen to Rock and Roll.

Benefiting from 14 years of excellence in VOX circuit design, the PM3000 exemplifies our motto: "Set it-forget it, it is the most forgettable intercom you'll ever use.(tm)" Constant squelch adjustments are eliminated with the PM3000. A single squelch knob controls multiple circuits. This provides for simple operation, as well as making the intercom one of the quietest to use, even in the noisiest airplanes.

The 6-place PM3000 provides two independent stereo entertainment inputs. This gives the passengers and the crew each the option to listen to their music device. When the intercom or aircraft becomes active, the music will automatically mute, allowing communications without distraction. When the activity ceases, the SoftMute(tm) circuit gradually returns the music to the original volume. A slight delay prevents lost syllables and choppy conversation.
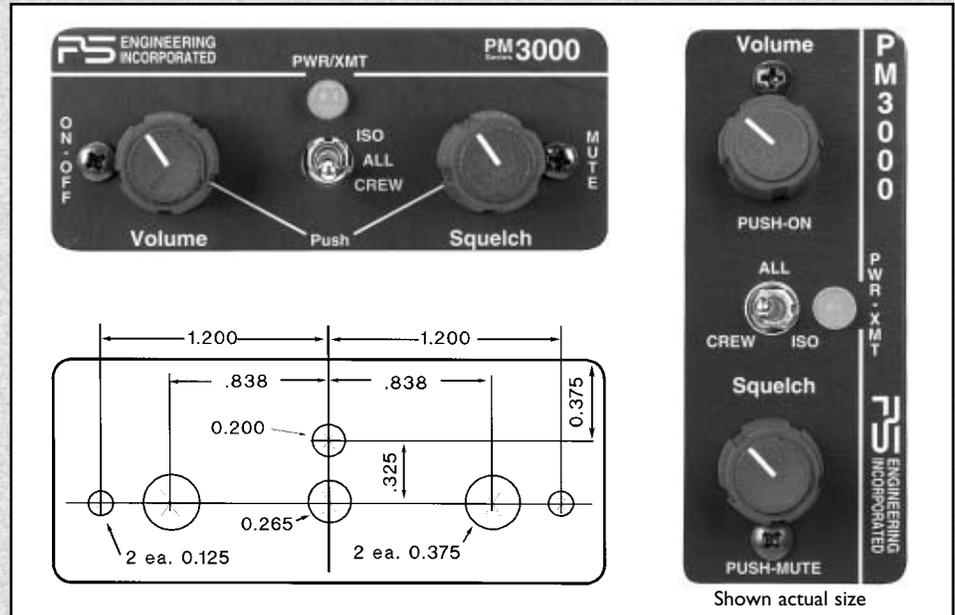
A unique "Karaoke Mode" in the PM3000 inhibits the mute, and keeps the music at a constant level. In CREW mode, music source #1 is heard by the pilot and copilot, while music source #2 connects to the passengers. In the ISO mode music #1 is distributed to the copilot and passengers. Finally, in the ALL mode, Music #1 is distributed in all headsets.

The PM3000 has an automatic fail-safe interconnect to the aircraft systems. If power to the intercom is disrupted, the pilot's headset is automatically connected to the aircraft radio. This permits continuous radio communications.

Since the intercom volume does not affect the aircraft radio volume, the pilot has the ability to fine-tune the audio level of the intercom independently of the aircraft radio level.

With the PM3000 installed, both pilot and copilot have transmit capability over the aircraft radio. Only the person who presses the PTT is heard over the radio. A 2-color LED shows green when power is on, and red during radio transmissions. This feature acts as a stuck microphone indication.

Shown actual size

TECHNICAL SPECIFICATIONS

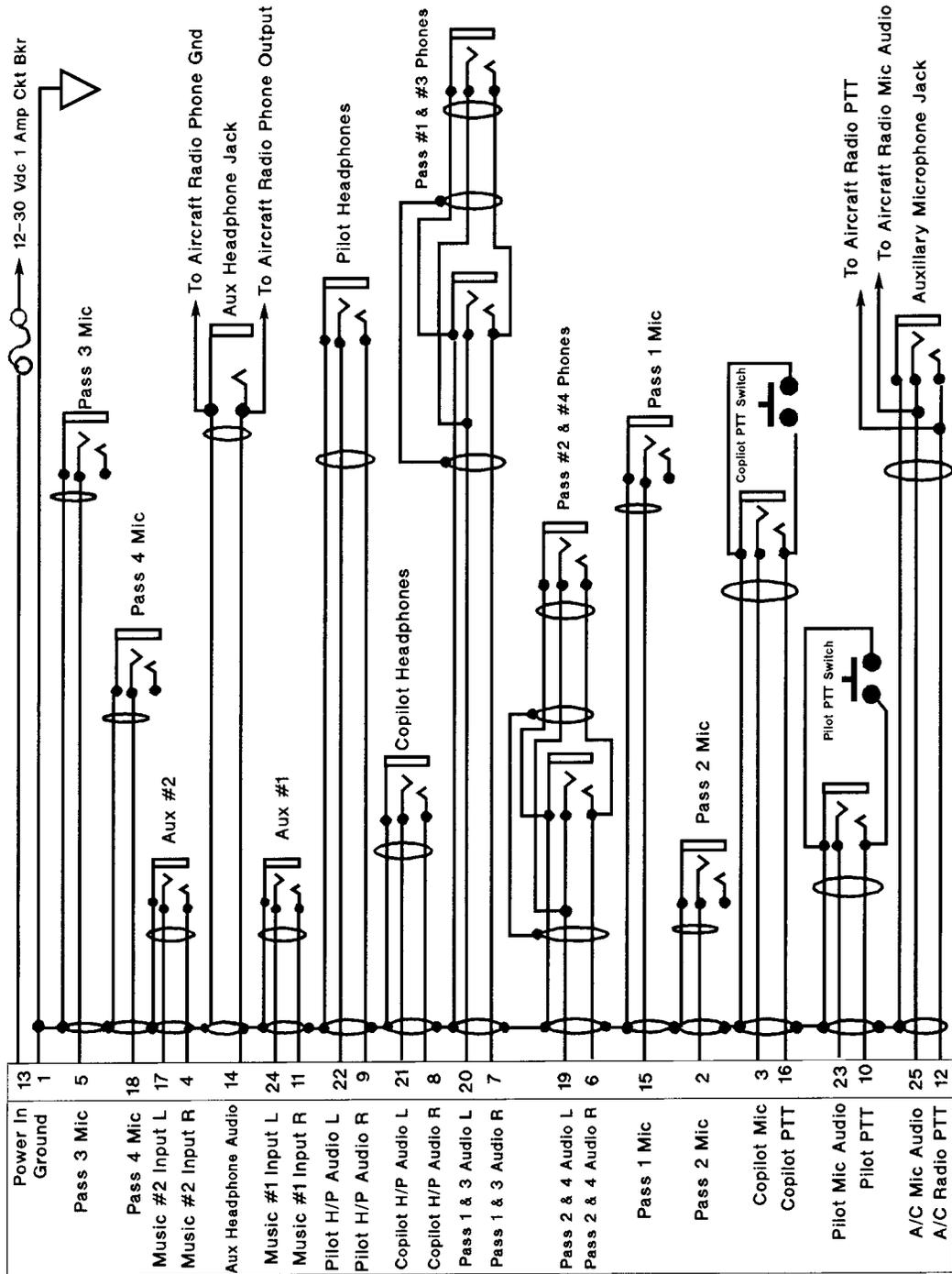|	
Input power:	12-28 VDC, Current Drain: < 250 mA
Headphone Impedance:	150-1000 Ω Typical
Audio Distortion:	<10% THD @ 150 mW into 150 Ω (Typical <1% THD at normal listening level)
Aircraft Radio Impedance:	510 Ω
+3 dB Microphone Freq. Response:	300 Hz - 6000 Hz
+3 dB Music Freq. Response:	200 Hz - 15Khz
Weight:	12 Oz.
Dimensions:	1.25" H X 3.00" W X 5.50" D
FAA-TSO C50c:	RTCA/DO-214, DO160C A1D1/CA(MN)XXXXXXBBBBTBKXXX

Pro-Support Warranty
One year hassle-free exchange program, when installed by an authorized PS Engineering Dealer. After 1 year a fixed rate of $79.95 will cover any repair. See warranty information in installation manual for full details.

ORDERING INFORMATION

PM3000 4-Place Stereo Intercom, FAA-TSO...P/N 11931
Four-place panel mount intercom with Isolate and all modes, single music input. Installation hardware includes four sets of headset jacks, a music jack and reversible (horizontal and vertical) metal mounting plate.
Same as above with 1-minute digital recorder (non-TSO).......................................P/N 11933

PM3000 6-Place Stereo Intercom, FAA-TSO ....P/N 11932
Six-place panel mount intercom with Isolate, Crew and all modes, dual music input. Installation hardware includes six sets of headset jacks, two music jack and reversible (horizontal and vertical) metal mounting plate.
Same as above with 1-minute digital recorder (non-TSO)..P/N 11934

Diagram labels:

12–30 Vdc 1 Amp Ckt Bkr · Pass 3 Mic · To Aircraft Radio Phone Gnd · Aux Headphone Jack · To Aircraft Radio Phone Output · Pilot Headphones · Pass #1 & #3 Phones · Pass 4 Mic · Aux #2 · Aux #1 · Copilot Headphones · Pass #2 & #4 Phones · Pass 1 Mic · Copilot PTT Switch · To Aircraft Radio PTT · To Aircraft Radio Mic Audio · Auxillary Microphone Jack · Pass 2 Mic · Pilot PTT Switch

Terminal list:

Pin	Name
13	Power In
1	Ground
5	Pass 3 Mic
18	Pass 4 Mic
17	Music #2 Input L
4	Music #2 Input R
14	Aux Headphone Audio
24	Music #1 Input L
11	Music #1 Input R
22	Pilot H/P Audio L
9	Pilot H/P Audio R
21	Copilot H/P Audio L
8	Copilot H/P Audio R
20	Pass 1 & 3 Audio L
7	Pass 1 & 3 Audio R
19	Pass 2 & 4 Audio L
6	Pass 2 & 4 Audio R
15	Pass 1 Mic
2	Pass 2 Mic
3	Copilot Mic
16	Copilot PTT
23	Pilot Mic Audio
10	Pilot PTT
25	A/C Mic Audio
12	A/C Radio PTT

Mode	Pilot Hears	Copilot Hears	Passenger Hears	Comments
Isolate	A/C radio, and sidetone from aircraft radio during Xmt.	Passengers Music #1	Passengers Copilot Music #1	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 and listen to Music #1.
All	A/C Radio Copilot Passengers Music #1	A/C Radio Pilot Passengers Music #1	Passengers A/C Radio Pilot, Copilot Music #1	This mode allows everyone to communicate with each other and hear aircraft radio. Music can be muted during intercom or radio activity. Music and intercom are disabled during radio transmissions.
Crew	Copilot A/C Radio Music #1	Pilot A/C Radio Music #1	Passengers Music #2	The pilot and copilot (Crew) are on one channel while the passengers are on a separate channel. Passengers can listen to Music #2 while the Crew can listen to Music #1.