

DMS™
DIGITAL MUSIC SERIES

**Digital Music
Power Amplifiers**

MODULE PORT - VOX - MOH - MIC - PHONE INTERFACE - EQ LINK - 3 ZONE - VOX RELAY

General Information

DMS 4121B - 120 Watt
DMS 4161B - 160 Watt
DMS 4241B - 240 Watt
DMS 4361B - 360 Watt



Power Amplifiers

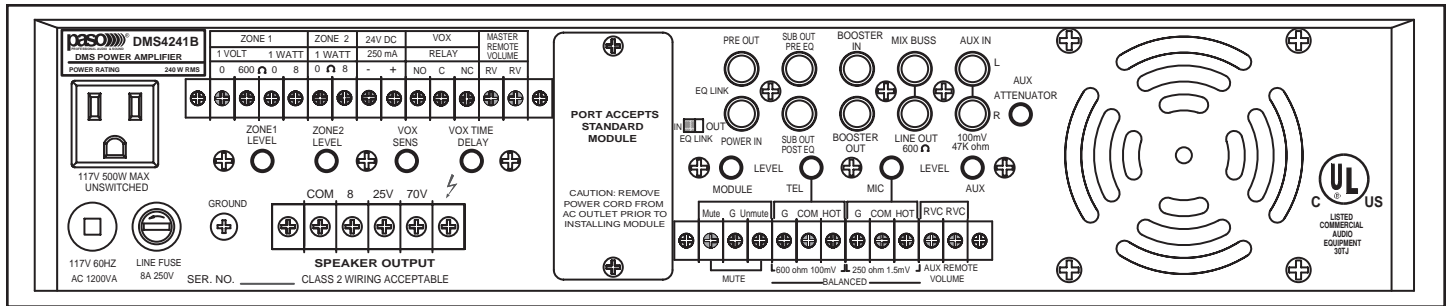
- ❑ High Performance
 - High Reliability Design
- ❑ Wide Frequency Response
 - Very Low Distortion
- ❑ 4 Channel Inputs
 - 3 Zone Outputs
- ❑ Balanced Microphone Input
- ❑ Phantom Power on MIC Input
 - with Selector
- ❑ 600 ohm Transformer Balanced
 - Telephone Paging Input
- ❑ Telephone Input Level Control
- ❑ Auxiliary Input
 - With Stereo Summing
- ❑ Auxiliary Input Attenuator
- ❑ Independent Input Controls
- ❑ Addressable VOX Buss
 - Voice Activated Muting
- ❑ VOX Variable Time Delay Function
- ❑ Addressable MUTE Buss
- ❑ Direct Muting or Unmuting
- ❑ Rear Panel Port
 - Accepts Standard Module
- ❑ Independent Module
 - Level Control
- ❑ External EQ Link
- ❑ 600 ohm and 8 ohm 1 Watt
 - Music on Hold Amplifier
- ❑ MOH Amplifier Source Selector
- ❑ Zone 2-3, 1 Watt - 8 ohm Output
 - with Separate Control
- ❑ MIX Buss and 600 ohm Line Output
- ❑ NO/NC VOX Operated Relay
- ❑ AUX1 and Master Remote Volume
 - Controls
- ❑ 24 V DC 250 mA Regulated
 - Power Supply Output
- ❑ 8 ohm, 25 Volt & 70 Volt Output
- ❑ Pre-EQ Subwoofer Output
- ❑ Post-EQ Subwoofer Output
- ❑ 19" Rack Mounting Ready
- ❑ Low profile - 2-Units
 - of Vertical Rack space
- ❑ UL 6500 Listed (US - CANADA)

Seventy years of innovation through technology . . . 1931 - 2001

Specifications - Models DMS4121B - DMS4161B - DMS4241B - DMS4361B

Power Output:	DMS4121B DMS4161B DMS4241B DMS4361B	120 Watt RMS 160 Watt RMS 240 Watt RMS 360 Watt RMS
Distortion:		Less than 0.5% THD
Frequency Response:		20 - 20,000 Hz ± 1 db
Inputs:		Microphone 1 Balanced Telephone Interface - Transformer Balanced AUX (<i>Stereo Summing</i>) Module Port
Sensitivity & Z:		<i>Mic</i> 1 = 1.5 Mv - 250 ohm <i>Tel</i> = 100 Mv - 600 ohm - Transformer Balanced <i>AUX</i> = 100 Mv - 47K ohm <i>Module</i> = 1 V - 47K ohm
AUX Input Attenuator:		Variable (rear panel control)
Phantom Power:		On MIC Input by internal jumper (18 V)
Hum & Noise:		<i>Mic</i> -70 db, <i>Aux</i> -75 db
Telephone Paging Input:		600 ohm Transformer balanced
Accessory Port:		Accepts Standard Module
EQ LINK:		Preamp out, Power Amp in with EQ Link Switch
Line Outputs:		Line Out 600 ohm - 1.5 V loaded
Inputs/Outputs:		MIX BUSS
Subwoofer Outputs:		Pre-EQ and Post-EQ Outputs
Subwoofer Output Level:		1 Volt
Music on Hold Output:		600 ohm-1 Volt Transformer Balanced
Zone 2 Output:		1 Watt-8 ohm with Control
Zone 3 Output:		1 Watt-8 ohm with Control
Main Output Impedance:		8 ohm, 25 Volt and 70 Volt line
Controls:		MIC Input Volume - PHONE Level - AUX Input Volume - Module Volume - AUX Input Attenuator - MOH/ZONE 1 Level Control - ZONE 2 Level Control - VOX 1/VOX 2 Sensitivity - VOX TIME Delay
Remote Volume Controls:		AUX Input Volume and Master Volume
MOH Source Selection:		AUX - MODULE by internal jumper
Zone 2 and 3 Source Selection:		AUX - MODULE by internal jumper
VOX:		Voice Activated Muting
VOX BUSS:		Available on all 4 Inputs by internal jumpers
MUTE BUSS:		Available on all 4 Inputs by internal jumpers
MUTE DELAY:		Adjustable from 3 Sec to 30 Sec (rear panel control)
Unmuting:		MUTES/UNMUTES MIC Input only
Power Supply Output:		24 V DC - 250 mA Regulated
Auto VOX Relay:		NO/NC Contacts - VOX activated - Contacts Rating = 30 VDC - 7 A
Rack Mounting:		19" Rack Mounting Kit supplied -
Vertical Rack Profile:		2-U of Vertical Rack Space
Internal Cooling Fan:		3" Thermally Controlled
Power Requirement:		117 Volt, 50-60 Hz
Power Consumption:		DMS4121B = AC = 850 VA - DMS4161B = AC = 970 VA - DMS4241B = 1200 VA - DMS4361B = 1500VA Max.
AC Accessory Outlet:		500 W Max. Unswitched
Terminations:		Screw Terminals, RCA Jacks
Housing Finish:		Black
Output Power Indicator:		Multi-color LED (<i>front panel</i>)
Dimensions:		DMS4121B - DMS4161B - DMS4241B = 19" W., 12" D., 4" H. with feet (482X305X102 mm) 3.5" H (89 mm). less feet
Net Weight:		DMS4361B = 19" W., 15" D., 4" H. with feet (482X381X102 mm) 3.5" H (89 mm). less feet
	DMS4121B	22 Lbs (11 Kg)
	DMS4161B	25 Lbs (11.4 Kg)
	DMS4241B	26 (11.8 Kg)
	DMS4361B	33 Lbs (15 Kg)

DMS4121B - DMS4161B - DMS4241B - DMS4361B Rear View



Input 1 - MIC - Microphone Input. Impedance is 250 ohm balanced. A level control is available on the rear panel. Termination is a screw type terminal strip.

Phantom Power - Phantom Power is provided by internal jumper.

Input 2 - AUX - Auxiliary Input. Impedance is 47 K ohm. A level control is available on the rear panel.

Stereo Summing - Two separate RCA Jacks are provided for the AUX Input (Left and Right). A Stereo signal connected to either Input is buffered and internally summed to Mono.

AUX Input Attenuator - The AUX Input sensitivity may be changed by a rear panel Variable Attenuator. This feature allows to set the output level of Programs originating from different sources (CD, Satellite Receiver, etc.).

Input 3 - PHONE - Phone Paging Input. This input is provided to interface with a Phone System. Input Impedance is 600 ohm, Transformer Balanced. A level control is available on the rear panel. Termination is a screw type Terminal strip.

Input 4 - MODULE - Port accepts standard plug-in module. Module Level Control is provided on the rear panel. See list of modules available from PASO.

MIX BUSS - This Input/Output may be utilized to parallel two amplifiers or as an input for a Microphone Mixer or other source.

Line Out - 600 ohm, 1.5 Volt Line Output.

Remote Volume Controls - The AUX Input Volume and the Master Volume may be adjusted from a remote location. Remote Volume Inputs utilize a 50K Pot and are immune to Audio Interference (DC Operation).

Addressable VOX System - The VOX System can be individually selected to operate independently on all 4 Inputs by means of jumpers. Any Input may be set to activate the VOX.

Addressable Muting System - The VOX System can be individually selected to operate independently on all 4 Inputs by means of jumpers. Any Input may be set to activate the MUTE feature.

MUTE Adjustable Delay - A rear panel control adjusts the MUTE Time Delay (the length of time that the MUTE stays activated) from 3 Sec. to 30 Sec. Particularly useful to control the length of time when an Input mutes another (for example Input 2 over the Module).

NO/NC VOX Relay - A VOX Relay is activated each time the VOX or the Muting functions are turned-on. Three terminals provide Normally Open and Normally Closed Contacts.

Music on Hold - Output Channel 1 - Channel 1 provides a 1 Volt, 600 ohm balanced output and a 1 Watt, 8 ohm output for Music/Message on Hold or Zone 1 Speaker Output. Internal Jumper selects the source from either AUX or Input Module. Level Control is provided.

Output Channel 2 - Channel 2 provides a 1 Watt, 8 ohm output for Zone 2 Speaker Output. Internal Jumper selects the source from either AUX or Input Module. Level Control is provided.

EQ LINK - EQ Link (Preamp Out) (Power Amp In) jacks are provided for External Equalizer. Activated by the EQ Link Switch.

Subwoofer Outputs - Two independent Subwoofer Outputs are provided a Pre-Equalization Output and a Post-Equalization Output. Output Voltage is 1 Volt.

24 VDC Supply Output - A 24 Volt DC, 250 mA regulated Power Supply is provided for external accessories

PRE-PAGING CHIME - Pre-Paging Chime is possible by using an optional internal plug-in Chime Module model AC1DMS (does not use port). Chime is activated by the MUTE circuit.

ACCESSORIES



AC1/DMS - Internal Plug-in Dual tone Chime Card. Mounts on main printed circuit board of Amplifier. Provides a Dual Tone Electronic Chime each time the Mute terminals are closed. May be activated by the microphone Muting switch to provide Pre-Paging/Announcement chime tone. May be used with all DMS Series Amplifiers (except DMS4121).



since 1931

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PASO SOUND PRODUCTS, INC.
 4750F GOER DRIVE
 CHARLESTON, SOUTH CAROLINA 29406-6511 USA
 Phone: 843 308 9005 - Fax: 843 308 0904
 EMAIL: info@pasosound.com - URL: www.pasosound.com
 FORM ED 288 RV 2.0 Printed in USA

