





USER MANUAL

DPM-2500A Digital-Audio-Matrix





Dante



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1. General

This operation manual includes important notes on safe operation of the unit. Please read all instructions and safety regulations. Keep these instructions for future reference. Take care that the operation manual is available to all users.

Our products are subject to continuous development. Therefore, any technical modification subject to change without notice.

Symbols and Important Notes

This section provides you with an overview of safety warnings and symbols and their importance.

Safety Warning	Importance
DANGER!	Warning of a possible danger, which can lead to death or to serious injuries, if not avoided.
CAUTION!	Warning of a possible danger, which can lead to a possibly dangerous situation, if not avoided.

Warning Symbol	Type of risk
	Caution! Warning of a possible danger!
4	Caution! Risk of electric shock!



2. Safety Instructions

- 1. Please read all instructions before operating the unit.
- 2. Keep these instructions for future reference.
- 3. Follow manufacturer's instructions.
- 4. Pay attention to all warnings. Do not remove any safety instruction or other information from the unit.
- 5. Use the unit only in the intended way.
- 6. Take note of applicable safety regulations.
- 7. **CAUTION!** Select the assembly site in such a way that the unit can be sufficiently cooled. Take care of the details of the brief instructions.
- 8. **CAUTION!** Do not block vents.
- 9. **CAUTION!** Keep away flammable materials, liquids and gases.
- 10. **CAUTION!** Do not use this unit near water or moisture. Take care that no liquid penetrates into the unit.
- 11. The installation must be carried out only with accessories recommended by AUDEMO SYSTEMS[®]. All options could only be assembled ex works in terms of warranty.
- 12. CAUTION! Do not open or modify the unit.
- 13. Opening of the security protected united for servicing, repair and so on is only allowed by the service department of AUDEMO SYSTEMS[®]. Interventions to the unit and breaking the seals will invalidate the warranty agreement!
- 14. Opening of the unit deactivates all functions! For reactivating in factory a fee will be charged!
- 15. **CAUTION!** Always take care about all connections and cables after installation to avoid damages and accidents with e.g. trip hazards.
- 16. **DANGER!** Pay highest attention while transporting that the system could never drop down or fall over and causes injuries and material damage.
- 17. **CAUTION!** In any case of acute malfunction of the unit, damage or impact of objects or fluids, switch off the unit immediately and disconnect mains and emergency power supply. The unit as well as the system could only be repaired or changed by the specialized company, the contracted maintenance company or the manufacturer.
- 18. Clean the surface of the unit with a soft cotton cloth.
- 19. Pay attention to actual waste disposal laws and regulations





DANGER!

Risk of electric shock of dangerous voltage within the units enclosure

Within the units enclosure there are uninsulated parts with high electric tension. Do not remove the cover. There are no user serviceable parts inside.



DANGER!

Risk of electric shock by short circuit

Always use properly earthed mains connections. Do not manipulate any cable or cable connector. Noncompliance could lead to electric shock with danger of serious injuries, death and fire! If you are not sure please contact the specialized company, the contracted maintenance company or the manufacturer



DANGER! Possible Hearing Damage

The system produces a volume level which could damage your hearing continuously or temporarily while listening to long to headphone or loud speaker sound sources.

Do not reproduce high volume levels for a long time. Reduce the level immediately if any noise in ear or hearing loss occurs.

Note: The level of the alert announcement may not be changed!

CAUTION! Operating Conditions

The unit is intended for indoor use. To prevent damage do not use this unit near liquids and moisture. Avoid direct sunlight, heavy dirt or strong vibration.

CAUTION! Power Supply

Verify the mains connection before installation of the unit. Compare local conditions with the information of the schematic diagram.

Initial operation, maintenance and servicing could only be affected by the specialized company, the contracted maintenance company or the manufacturer.



3. Technical Features

The Digital Paging Management Unit DPM-2500 A is a digital signaling audio control unit used to initiate/ manage live paging, audio signal routing and playing pre-recorded audio messages. The unit is ideal for different audio applications including the voice alarm, mass notification (general alarm), background music and professional public address. It is equipped with an internal monitoring of all alarm-relevant parts, internal error logging and permanent monitoring of all PADES® 2000 system buses as well as the audio signal path from the signal source to the loudspeaker line in accordance with the standard requirements of VDE 0828 and EN54 Part 16. The DPM-2500A is equipped with 4 independent (DSP-based) audio input channels. On the output side, you can use four independent preamplifier outputs for DPM -2500 A and DPM-2500B versions. The digital paging management unit is used in combination with DAA amplifiers and DMS-2021A to power multi-independent loudspeaker outputs supporting class A or class A/B wiring.

Up to ten digital selective remote microphone units DPM- 2550 A or DPM-2550 B can be operated with each DPM unit. If a DAM-2550 A system call station is to be connected to the paging management unit, this can be done over TCP/ IP media or RS 485.

The unit can be equipped with a digital Dante-enabled card, model number DMS -2034A. For more details: Review the user manual for DMS-2034A.

The audio signal processing allows the simultaneous operation of 4 independent speech paths in connection with a supplementary software license. With the digital-analog input module, up to 4 monitored digital or analog inputs are available. In order to play a selected input channel with priority, the NF-Digital-1-Channel-Priority-Control-Module is used. Furthermore, an NF-Digital External Volume Control Module allows remote volume control of a selected input channel. On the input side, there are high-performance audio AD converters with 128x oversampling and input channel gain adjustable in 6 dB steps (0 – 42 dB), and on the output side with high-performance audio DA converter with 128x oversampling and switchable output channel gain (0/6 dB) is available. For a professional, unadulterated reproduction of speech and music, each input/output features a five-band parametric equalizer. Each audio input could be configured as a Line or Mic input supporting phantom power input.

The below list describes the control ability of the system :

Number of Loudspeakers- Lines	1000
Number of Lines -Groups	1024
Number of Clock Events	8192
Number of Trigger Events	1024
Number of Events and Fault Logs	2047
Number of Priorities	255 x 255
Number of Signal Chain Entries	512
Number of Remote Paging Microphones DAM-2550A	64
Number of Remote Paging Microphones DPM-2550 A	32

For warranty reasons, all options can only be installed in the factory. All system components are delivered exclusively project related. A purchase of individual components is unfortunately not possible.



4. Operational Controls

Front Panel:



Function Key MENU 1

Push the key to enter the next submenu.

Function Key ESC 2

Push the key to leave the submenu to the next higher operating level.

SELECT-Turning Encoder with ENTER-Key Function

3 Rotate the encoder to change the menu items. The menu driven handling is indicated on the integrated LCD-display. Push the encoder to confirmed a menu item (ENTER).

MENU LED 4

The green LED MENUE is illuminated on selection of a submenu.

ESC LED

5 The green LED ESC is illuminated on the possibility to leave a submenu to the next (higher) operating level.

ERROR LED 6

The yellow LED ERROR is illuminated on each failure of the unit.

ON LED 7

The green LED ON is illuminated on standby of the unit.

LCD-Display

8 Display with changing colour in order to indicate an error status of the unit. The display is illuminated yellow if any failure occurs.



Rear Panel:



- 1 240AC 50/60Hz MAIN POWER SUPPLY
- 2 +24VDC SECONDARY POWER SUPPLY
- 3 SPDF IN
- 4 PROGRAMMABLE CONTROL INPUTS(5 INPUTS-NO/NC)
- 5 PROGRAMMABLE RELAY OUTPUTS
- 6 GPS PORT
- 7 ERROR OUTPUT
- 8 PROGRAMMABLE LINE/MIC INPUTS
- 9 PROGRAMMABLE LINE OUTPUTS
- 10 IO-MOD(2 Nos):CONTROL THE DAM-2525 AND DAA-237X RANGE OF AMP+CONTROL AND POWER FOR(DMS-2021A+DMS-2022A)
- 11 PRIMARY DANTE PORT(DMS-2034A)
- 12 SECONDARY DANTE PORT(DMS-2034A)
- 13 WALL MOUNT MICROPHONE (PRIMARY PORT TO DRIVE DAISY CHAIN OF REMOTE PAGING MICRO-PHONES)
- 14 SECONDARY PORT TO DRIVE DAISY CHAIN OF REMOTE PAGING MICROPHONES
- **15** ETHERNET PORT (INTEGRATION WITH MODBUS)
- 16 THIRD PORT TO DRIVE REMOTE PAGING MICROPHONES OR TO DRIVE POE MICROPHONES
- 17 PROVISION TO DRIVE PERIPHERAL DEVICES LIKE DPA 2274A /B AND DMS-2041A
- **18** SERIAL LINK FOR PROGRAMMING



5. Programming DPM 2500x (digital paging module)

The programming is different depending on the internally installed or externally connected modules.

Overview in the Pades2000 Config Tool



Example figure: Tree View Tab

Note: DPM2500 will appear always as DPM-2500B even for DPM-2500A. Serial number will define the version 5.1) Highlight the serial number under the device displayed



Example figure: Tree view tab with serial number marked

5.2) Select the device you want to configure in the Config Tool. In this case click on the TAB DPM-2500.

Now you will see the following in the main window:

	options re	ead tab	write tab	write cl	hanges										
E	ackupProtoco	IEventList	Licenses	Termin	al RemoteControl	DeviceInfo T	askStatus								
	lot used Modul	DAA-	23xx DA	M-2522	DCM-2870 DMS-2	2010 DMS-202	1 DMS-2025	DMS-2042 0	DMS-2061 DM	IS-2068 DPA-2274	SignalChain Trig	ger Clock	Channel Cloc	kEvent AmpGroup	SpeakerLine
L	ineGroup E	ncoder P	ortConfig	EmMicP	Port DAM-2541 D	AM-2550 DPM	-2550 DAM-25	DEU-2700	DPM-2500	DPU-2600 Inputs	Outputs Level	Buffer C	urrentEventList	ProtocolEventList	
Γ	DataComplete	Serial	Mon	itoring H	HealthState	RxPackets									
0	1		0 (S	ystemOK	0									
0	l.		0	S)	iystemOK	0									

Example figure: main window with selected TAB "DPM-2500"



6. Setting up speaker lines (Speaker Line)

6.1) DMS-2021A

- Click on the TAB SpeakerLine SpeaklerLine
- Double click on the first free row in the main window.
- The following window appears:

LINE: Toilet (A)	– 🗆 X
Index: 0	default OK
DeviceType: DMS2021A V Serial:	10592 🜩
Relay/Ch-Index: 2	
LineName: Toilet (A)	Enabled
AMP-Index: 0 - Pilot Tone-Check	uses in LineGroup:
Measurement Limits	Index GroupName
Interval Group	10 All Call
Measure 90 🜩 sec 0 🜩	11 G-Floor
Impedance Ground	15 All
Repeat 5 -	16 G-F - Toilet
Range Compensation	
Drift +/- 5 ÷ % 0.010 ÷	
Impedance Limits off	Measure-Results
Detach Neg. Error Neg. Warn Neg. ✓ -50 ← ✓ -40 ← ✓ -30 ←	100 % - Inf
Warn Pos. Error Pos. Detach Pos.	0 % 50 k
Ground Limits off Warn Error Detach	
☑ 75★ ☑ 60★ ☑ 45★	-100 % - 0k -

- Look for your device under Device Type. In this case DMS-2021A
- Enter a serial number if it was not recognized by the system.
- For Relay/Ch-Index, enter the position on the relay to which this line is connected
- Give the line a unique name for "Line Name".
- Enter the index number of your amplifier under AMP index



- Check "Enabled" to activate the line you have configured.
- Note: The "uses in LineGroup" display does not show any line groups when speaker lines are set up for the first time. This only fills up when you have created line groups, see point 7.
- Click OK to apply your settings.

options re	ead tab write	tab write ch	anges									
LineGroup E	ineGroup Encoder PortConfig EmMicPort DAM-2541 DAM-2550 DPM-2550 DPM-2550 DEU-2700 DPM-2500 DPU-2600 Inputs Outputs Level Buffer CurrentEventList ProtocolEventList											
Not used Modul	es DAA-23xx	DAM-2522	DCM-2870 D	DMS-2010 DM	IS-2021 DMS-2025 DMS-2042 DM	IS-2061 DMS-2068 DPA-2274	SignalChain Trigger	ClockChannel	ClockEvent A	mpGroup S	peakerLine	
DataComplete	DeviceType	Serial	RelayIndex	LineEnabled	LineName	State	ImpActualValu	e ImpSetpoint	ImpDeflation	Ohm	Power	
1	DMS2021A	10592	2		Toilet (A)		0.000	0.000	NaN		-	0.0
1	DMS2021A	10592	3		Toilet (B)		0.000	0.000	NaN		-	0.0
1	DMS2021A	10592	4		Corridor-Brief Room (A)		0.000	0.000	NaN		-	0.0
1	DMS2021A	10592	5		Corridor-Brief Room (B)		0.000	0.000	NaN		-	0.0

Note: Repeat the process as described in point 6.1 until you have set up all your speaker lines.

6.2) DMS-2061A

- Click on the TAB SpeakerLine SpeaklerLine
- Double click on the first free row in the main window.
- The following window appears:

LINE: Toilet (A)			-		×
Index:	0			c	iefault	OK
DeviceType:	DMS2061A V	Serial:	10592	-		cancel
Relay/Ch-Index:	2 🔹					
LineName:	Toilet (A)			Enabled	đ	
AMP-Index:	0 🜩		uses	in LineGroup:		
			Index	GroupName		
			10	Al Call		
			11	G-Floor		
			15	Al		
			16	G-F - Toilet		

- Look for your device under Device Type. In this case DMS-2061A
- Enter a serial number if it was not recognized by the system.
- For Relay/Ch-Index, enter the position on the relay to which this line is connected
- Give the line a unique name for "Line Name".
- Enter the index number of your amplifier under AMP index
- Check "Enabled" to activate the line you have configured.
- Note: The "uses in LineGroup" display does not show any line groups when speaker lines are set up for the first time. This only fills up when you have created line groups, see point 7.
- Click OK to apply your settings.



options	read tab write	e tab write ch	langes												
LineGroup	Encoder PortCo	onfig EmMicPo	DAM-2541	DAM-2550	DPM-2550 DAM-2500 DEU-2	700 DPM-25	00 DPU-260	0 Inputs	Outputs L	evel Buffer	CurrentEven	List Protocoli	EventList		
BackupProtoc	colEventList Lice	enses Termina	al RemoteCon	trol DeviceInf	o TaskStatus										
Not used Mod	lules DAA-23xx	DAM-2522	DCM-2870 D	MS-2010 DM	IS-2021 DMS-2025 DMS-2042	DMS-2061	DMS-2068	DPA-2274	SignalChain	Trigger (ClockChannel	ClockEvent A	AmpGroup	SpeakerLine	
DataComplet	e DeviceType	Serial	RelayIndex	LineEnabled	LineName	5	State		Ir	npActualValue	Imp Setpoint	Imp Deflation	Ohm	Power	
	1 DMS2061A	10592	2		Toilet (A)					0.000	0.000	NaN		-	0.0
	1 DMS2061A	10592	3		Toilet (B)					0.000	0.000	NaN		-	0.0
	1 DMS2061A	10592	4		Corridor-Brief Room (A)					0.000	0.000	NaN		-	0.0
	1 DMS2061A	10592	4		Corridor-Brief Room (B)				1	0.000	0.000	NaN		-	0.0

Note: Repeat the process as described in point 6.2 until you have set up all your speaker lines.

6.3) DMS-2068A

- Click on the TAB SpeakerLine SpeaklerLine
- Double click on the first free row in the main window.
- The following window appears:

LINE: Toilet ((A)				-	- 0	×
Index:	0					default	ОК
DeviceType:	DMS2068A	\sim	Serial:	10592	÷		cancel
Relay/Ch-Index:	2 🜲						
LineName:	Toilet (A)				Enal	bled	
AMP-Index:	0			uses i	n LineGroup	c	
				Index	GroupNam	1e	
				10	All Call		
				11	G-Floor		
				15	All		
				16	G-F - Toilet		
					Accession of the second se		

- Enter a serial number if it was not recognized by the system.
- For Relay/Ch-Index, enter the position on the relay to which this line is connected
- Give the line a unique name for "Line Name".
- Enter the index number of your amplifier under AMP index
- Check "Enabled" to activate the line you have configured.
- Note: The "uses in LineGroup" display does not show any line groups when speaker lines are set up for the first time. This only fills up when you have created line groups, see point 7.
- Click OK to apply your settings.



options	read tab wri	ite tab write ch	nanges											
LineGroup	Encoder Port	Config EmMicPo	DAM-2541	DAM-2550	DPM-2550 DAM-2500 DE	EU-2700 DPM-250	00 DPU-2600 Inputs	Outputs	Level Buffer	CurrentEven	tList Protocol	EventList		
BackupProto	BackupProtocolEventList Licenses Terminal RemoteControl DeviceInfo TaskStatus									Construction				
Not used Mo	dules DAA-23	OC DAM-2022	DCM-28/0	JMS-2010 L	JMS-2021 DMS-2020 DMS-20	042 DMS-2061	DMS-2068 DPA-2274	SignalChail	n Ingger (JockChannel	ClockEvent	AmpGroup	SpeakerLine	
DataComple	te DeviceType	Serial	RelayIndex	LineEnabled	LineName	9	State		ImpActualValue	Imp Setpoint	ImpDeflation	Ohm	Power	
1	1 DMS2068A	10592	1		Toilet (A)				0.000	0.000	NaN		-	0.0
	1 DMS2068A	10592	2	2 🔽	Toilet (B)				0.000	0.000	NaN			0.0
	1 DMS2068A	10592	3		Corridor-Brief Room (A)				0.000	0.000	NaN	0		0.0
	1 DMS2068A	10592	4		Comdor-Brief Room (B)				0.000	0.000	NaN			0.0

Note: Repeat the process as described in point 6.3 until you have set up all your speaker lines.

6.4) DAA-235XX

- Click on the TAB SpeakerLine SpeaklerLine
- Double click on the first free row in the main window.
- The following window appears:

LINE: Toilet (A)	- 🗆 X
Index:	0	default OK
DeviceType:	DAA235XX V Serial:	10592 🜩
Relay/Ch-Index:	2 🚔	
LineName:	Toilet (A)	Enabled
AMP-Index:	0	uses in LineGroup:
Measurement Li	mits	Index GroupName
	Interval Group	10 Al Cal
Measure	90 🗢 sec 0 🗢	11 G-Roor
	Impedance Ground	15 AI
Repeat	5 🗢 5 🗢	15 G.E. Tolet
	Range Compensation	io ar ioici
Drift	+/- 5 - % 0.010 -	
Impedance Limit	off	Measure-Results
Detach Neg.	Error Neg. Warn Neg.	100 % - Inf
Warn Pos.	Error Pos. Detach Pos.	
☑ 30 🔹	40 0 40 0	0 % 50 k
Ground Limits Warn	off Error Detach	
₽ 75 🜩	60 🗘 🗹 45 🜩	-100 % - 0 k -

- Look for your device under Device Type. In this case DAA-235XX
- Enter a serial number if it was not recognized by the system.
- For Relay/Ch-Index, enter the position on the relay to which this line is connected
- Give the line a unique name for "Line Name".
- Enter the index number of your amplifier under AMP index
- Check "Enabled" to activate the line you have configured.

Note: The "uses in LineGroup" display does not show any line groups when speaker lines are set up for the first time. This only fills up when you have created line groups, see point 7.



options	options read tab write tab write changes														
LineGroup E	ncoder PortCo	onfig EmMicPo	DAM-2541	DAM-2550	DPM-2550 DAM-2500 DEU	J-2700 DPM-2	500 DPU-26	00 Inputs	Outputs	Level Buffe	CurrentEven	tList Protocol	EventList		
Not used Modul	les DAA-23xx	DAM-2522	DCM-2870 D	MS-2010 DM	S-2021 DMS-2025 DMS-204	42 DMS-2061	DMS-2068	DPA-2274	SignalChai	n Trigger	ClockChannel	ClockEvent	AmpGroup	SpeakerLine	
DataComplete	DeviceType	Serial	RelayIndex	LineEnabled	LineName		State			ImpActualValue	Imp Setpoint	Imp Deflation	Ohm	Power	
1	DAA235XX	10592	1		Toilet (A)					0.000	0.000	NaN	L III		0.0
1	DAA235XX	10592	2		Toilet (B)					0.000	0.000	NaN		-	0.0
1	DAA235XX	10592	3		Corridor-Brief Room (A)					0.000	0.000	NaN	1		0.0
1	DAA235XX	10592	4		Corridor-Brief Room (B)					0.000	0.000	NaN			0.0

Example image: After setting up several speaker lines Note: Repeat the process as described in point 6.4 until you have set up all your speaker lines.

6.5) DAA-236XX

- Click on the TAB Speaker Line SpeaklerLine
- Double click on the first free row in the main window.
- The following window appears:

🛄 LINE: Toilet (A)	- 🗆 ×
Index:	0	default OK
DeviceType:	DAA236XX V Serial:	10592 🔹 cancel
Relay/Ch-Index:	2 🜲	
LineName:	Toilet (A)	Enabled
AMP-Index:	0 🜩	uses in LineGroup:
Measurement Li	imits	Index GroupName
	Interval Group	10 Al Call
Measure	90 🜩 sec 🛛 0 🜩	11 G-Floor
	Impedance Ground	15 AI
Repeat	5 🗢 5 🗢	16 G-F - Toilet
	Range Compensation	
Drift	+/- 5 - % 0,010 -	
Impedance Limi	ts off	Measure-Results
Detach Neg.	Error Neg. Warn Neg.	100 % - Inf
Warn Pos.	Error Pos. Detach Pos.	0 % 50 k
Ground Limits Warn 75 🜩	Error Detach	-100 % 0 k

- Look for your device under Device Type. In this case DAA-236XX
- Enter a serial number if it was not recognized by the system.
- · For Relay/Ch-Index, enter the position on the relay to which this line is connected
- Give the line a unique name for "Line Name".
- Enter the index number of your amplifier under AMP index
- Check "Enabled" to activate the line you have configured.
- Note: The "uses in LineGroup" display does not show any line groups when speaker lines are set up for the first time. This only fills up when you have created line groups, see point 7.
- Click OK to apply your settings.



options re	ad tab write	tab write ch	nanges												
LineGroup E	ncoder PortCo		DAM-2541	DAM-2550	DPM-2550 DAM-2500 D	EU-2700 DPM-2	2500 DPU-260	0 Inputs	Outputs	Level Buffer	CurrentEven	tList Protocoli	EventList		
Not used Modul	es DAA-23xx	DAM-2522	DCM-2870 D	MS-2010 DM	IS-2021 DMS-2025 DMS-2	2042 DMS-2061	DMS-2068	DPA-2274	SignalChai	n Trigger (ClockChannel	ClockEvent /	AmpGroup	SpeakerLin	•
DataComplete	DeviceType	Serial	RelayIndex	LineEnabled	LineName		State			ImpActualValue	Imp Setpoint	Imp Deflation	Ohm	Power	
1	DAA236XX	10592	1		Toilet (A)					0.000	0.000	NaN		-	0.0
1	DAA236XX	10592	2		Toilet (B)					0.000	0.000	NaN		-	0.0
1	DAA236XX	10592	3		Corridor-Brief Room (A)					0.000	0.000	NaN			0.0
1	DAA236XX	10592	4		Corridor-Brief Room (B)					0.000	0.000	NaN		-	0.0

Example image: After setting up several speaker lines Note: Repeat the process as described in point 6.5 until you have set up all your speaker lines.

6.6) DAA-237XX

- Click on the TAB Speaker Line SpeaklerLine
- Double click on the first free row in the main window.
- The following window appears:

LINE: Toilet ((A)						- 0	×
Index:		0					default	OK
DeviceType:	DAA	37XX	~	Serial:	10592	-		cancel
Relay/Ch-Index:		2 🜲						
LineName:	Toilet	(A)				Ena	abled	
AMP-Index:		0 🜲			uses i	n LineGrou	p:	
Measurement L	imits				Index	GroupNa	me	
	1	nterval		Group	10	AI Call		
Measure	[90 🜲	sec	0	11	G-Floor		
	In	pedance		Ground	15	AI		
Repeat		5 🜩		5 🜩	16	G-E - Toile		_
		Range	Соп	pensation		GIT TORC	a	_
Drift	+/-	5 🜲	%	0.010 🜲				
Impedance Lim	ts			off	Meas	ure-Results	È	
Detach Neg.	E	mor Neg.	V	Vam Neg.	100	x - 1	Inf	
-50 🜩		-40 🜩		-30 🜲	100	1		T.
Wam Pos.	E	mor Pos.	De	tach Pos.				
30 🜩		40 🜩		40 🗘	0	2	50 k	
						1		
Ground Limits				off				
Wam	-	Error	-	Detach	100	. 3		
75 -		60 🖨	\square	45 🜩	-100	7	OF	-

- Look for your device under Device Type. In this case DAA-237XX
- Enter a serial number if it was not recognized by the system.
- · For Relay/Ch-Index, enter the position on the relay to which this line is connected
- Give the line a unique name for "Line Name".
- Enter the index number of your amplifier under AMP index
- Check "Enabled" to activate the line you have configured.
- Note: The "uses in LineGroup" display does not show any line groups when speaker lines are set up for the first time. This only fills up when you have created line groups, see point 7.
- Click OK to apply your settings.



options re	ead tab write	tab write ch	anges									
LineGroup E	ncoder PortCo	onfig EmMicPa	DAM-2541	DAM-2550	DPM-2550 DAM-2500 DEU-2700 DPM-	2500 DPU-2600 Inputs Outputs	Level Buffe	r CurrentEver	tList ProtocolE	ventList		
BackupProtoco Not used Modul	lEventList Lice	DAM-2522	DCM-2870 D	MS-2010 DM	o I askStatus S-2021 DMS-2025 DMS-2042 DMS-206	DMS-2068 DPA-2274 SionalCh	ain Trigger	ClockChannel	ClockEvent A	mpGroup	SpeakerLine	
	D	0.11										_
DataComplete	Device Type	Senal	RelayIndex	UneEnabled	LineName	State	Imp.Actual Valu	ImpSetpoint	ImpDeflation	Ohm	Power	
	DAA237XX	10592	1		Toilet (A)		0.000	0.000	NaN			0.0
1	DAA237XX	10592	2		Toilet (B)		0.000	0.000	NaN			0.0
1	DAA237XX	10592	3		Corridor-Brief Room (A)		0.000	0.000	NaN			0.0
1	DAA237XX	10592	4		Corridor-Brief Room (B)		0.000	0.000	NaN		-	0.0

Note: Repeat the process as described in point 6.6 until you have set up all your speaker lines.

7. Setting up line groups (Line Group)

7.1) DMS-2021A

Here you have the option of grouping together the individual speaker lines that you set up under point 6, for example to play announcements or background music throughout or in parts of the building.

- Click on the TAB Line Group LineGroup
- Double click on the first free row in the main window.
- The following window appears:

Index	10 🗹	Enabled)ynami	c 🗌 Remote	set all	OK
GroupName	All Call					clear all	cancel
used Outputs	DMS2021A	10592	2	\checkmark	Toilet (A)		^
⊘ 0 □ 16	DMS2021A	10592	3	\checkmark	Toilet (B)		
1 17	DMS2021A	10592	4	\checkmark	Corridor, Brief Room (A)		
2 18	DMS2021A	10592	5	\checkmark	Corridor, Brief Room (B)		
3 19	DMS2021A	10592	6	\checkmark	Gyor Lab (A)		
4 20	DMS2021A	10592	7	\checkmark	Gyor Lab (B)		
5 21	DMS2021A	10592	8	\checkmark	Equipment Room (A)		
	DMS2021A	10592	9	\checkmark	Equipment Room (B)		
	DMS2021A	10593	0	\checkmark	Toilet (A)		
	DMS2021A	10593	1	\checkmark	Toilet (B)		
	DMS2021A	10593	2	\checkmark	Corridor (A)		
	DMS2021A	10593	3	\checkmark	Corridor (B)		
	DMS2021A	10593	4	\checkmark	Toilet (A)		
	DMS2021A	10593	5	\checkmark	Toilet (B)		
	DMS2021A	10593	6	\checkmark	Auditorium (A)		
13 29	DMS2021A	10593	7	\checkmark	Auditorium (B)		
14 30	DMS2021A	10593	8	\checkmark	Corridor (A)		
15 31	Persete	10500	0	_			Ť
	Device		Ser	ial			
	not_set				\sim		

Example illustration: Here you can see the loudspeaker lines configured under point 6.1



- Click on "Enabled" so that your group, which you are now defining, becomes active
- Give your group a unique name in "GroupName". This is important so that you can later assign your groups accordingly. Example: "All Call" for All speaker lines if they select all
- Select the lines you want.
- When you have made your settings, click on "OK". These are then adopted by the system.

options re	ead tab w	vrite tab v	rite change	s											
BackupProtocol	IEventList	Licenses 1	erminal R	emoteContro	DeviceInfo Ta	skStatus				C. 101	1 1.				
LineGroup Er	ncoder Po	rtConfig Er	nMicPort	DAM-2541	DAM-2550 DPM-	2550 DAM-2500	DEU-2700 DF	M-2500 DPU	-2600 Inputs	Outputs [evel Buffe	CurrentEventL	ist ProtocolE	ventList	
DataComplete	Enabled	IsDynamic	IsRemote	IsActive	GroupName		Linel)ata	AudioChannel	Rem.lsTen	Rem.Dev.	Rem.Serial	Background		
1					All Call		Syste	n.UInt32[]	00		All	0			
1					AB		Syste	n.UInt32[]	00		All	0			
1					CD		Syste	n.UInt32[]	00		All	0			
1					EF		Syste	n.UInt32[]	00		All	0			
1					GH		Syste	n.UInt32[]	00		All	0			

Example image: After setting up a line group

Note: Repeat this process, as described under Point 7.1, until you have grouped all the speaker lines you want.

8. Installing the Controller

Unpacking

Unpack your controller and inspect for any damage that may have occurred during transit.

If damage is found, notify the shipping company immediately. Only you can initiate a claim for shipping damage, though AUDEMO-SYSTEMS® will be happy to help as needed. If the product arrived, showing signs of damage, save the shipping carton for the shipper's inspection.

We also recommend that you save all packing materials for use if you ever need to transport the unit. Never ship the unit without the factory carton and packing materials.



9. Connections and additional Possibilities

9.1) Connection of loudspeaker lines

Take care for correct phase relation when you connect any loudspeaker.

Danger! Beware of short circuits and earth fault.

Adjust each speaker with the preset power as noticed in the cabling diagram. Test each single loudspeaker line by a measurement of line impedance at 1000 Hz (Z-Meter with tone-signal) with exact protocolling of the result.

10. Options

Order number	Description	Max. extension per unit
DPM-2500A	Digital-Audio- Paging-Controller	
DPM-2500B	Digital-Audio -Paging- Controller	

All options could only be assembled ex works. All components of the electroacoustic system could only be delivered referring to a project. Unfortunately, there is no possibility of buying single components.



11. Technical Specifications

Frequency range	20- 20000Hz
Gain Control	-42 dB
Signal-to-noise ratio	>92 dB
Harmonic distortion	< 0.01 %
DSP resolution	32 bit
Dynamic range (DSP)	192 dB
D/A converter – resolution	24 bit
Dynamic range (D/A converter)	118 dB
A/D converter – resolution	24 bit
Dynamic range (A/D converter)	106 dB
Output voltage	220-240 V AC, 50 /60Hz
Emergency Power	24 VDC
Dimensions (W \times D \times H)	483 × 44 × 300 mm (1U)
Weight	4.7 kg
Protection rating	IP30
Temperature range (operation)	-5 to +55°C

12. Environment Protection



In any case of replacement, the substituted unit is taken back from the manufacturer.



This product is subjected to European directive 2002/96/EG and 2012/19/EU (WEEE-directive). Dispose this product never with your domestic waste.

Dispose a control center system with an accredited waste disposal company or your

local disposal facility. Take care of applicable regulations. In case of doubt please contact your local disposal facility.

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