

# GOLDING AUDIO LTD

## DMS 1U Series Specification

### DMS 2010 / 2020 / 2030 / 2040 Case Unit

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Tel: 01206 762462 Fax: 01206 762633  
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#### Model Identification

Model No: DMS2010  
Includes DMS2000 Sound Store Card Line Level Output.

Model No: DMS2020  
Includes DMS2000 Sound Store Card with integral 20 + 20 Amplifier.

Model No: DMS2030  
Includes DMS2000 Sound Store Card Line Level Output and MAPS System Playback Card.

Model No: DMS2040  
Includes DMS2000 Sound Store Card with integral 20 + 20 Amplifier and MAPS System Playback Card.

This gives general information on the DMS 1U Case models as listed above, some features mentioned may not be enabled on your particular unit. If more detail information is required on the DMS2000 Sound Store card or MAPS Playback Card such as enabling different features please refer to their separate USER GUIDES.

#### Amplifier specification

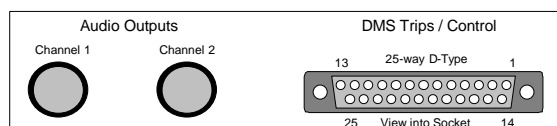
Models DMS2020 and DMS2040

Output - 20W per channel into 8 ohms  
Bandwidth - 20Hz - 20kHz +/- 0.25dB  
Output Protection - Over voltage / Overload / Thermal

#### 1U case details

Overall Dimensions - 483mm (W) 340mm (D) 44mm (H)  
Power Supply Voltage - 220-240V AC 50/60Hz.  
Power Consumption - 50W (with integral amplifier)  
Audio Out connector - 6.3mm Jack 3pole  
DMS I/O control connector - 25-way D-Type Female  
MAPS card output connector - 37-way D-Type Female  
MAPS card I/O connector - 25-way D-Type Female  
Aux 12v Power Supply Output - 12v D.C. Regulated

#### Audio and Control I/O connections



#### Audio Outputs Ch1 and Ch2 (3.25" Jack)

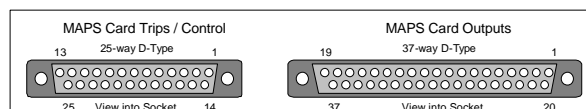
Balanced Line Level Output  
TIP = SIGNAL + / MID = SIGNAL / BASE = GROUND

Amplified Output  
TIP = SPEAKER + / BASE = SPEAKER -

#### 25 Way D-Type DMS Trips / Control

Pin 1 - Ground 0v	Pin 14 - Trip Line 1
Pin 2 - Trip Line 2	Pin 15 - Trip Line 3
Pin 3 - Trip Line 4	Pin 16 - Trip Line 5
Pin 4 - Trip Line 6	Pin 17 - Trip Line 7
Pin 5 - Trip Line 8	Pin 18 - Mute In
Pin 6 - PAUSE	Pin 19 - RS232 RX
Pin 7 - RS232 TX	Pin 20 - CLK-B
Pin 8 - CLK-A	Pin 21 - SYNC-IN
Pin 9 - RUN-IN	Pin 22 - SYNC-OUT
Pin 10 - RUN-OUT	Pin 23 - N/C
Pin 11 - GO-OUT	Pin 24 - Board VCC Out
Pin 12 - MUTE-OUT	Pin 25 - Ground 0v
Pin 13 - +12v Out	

#### MAPS Card Connections



#### 25 Way D-Type MAPS Trips / Control

Pin 1 - N/C	Pin 14 - N/C
Pin 2 - Analogue2 out	Pin 15 - Analogue1 Out
Pin 3 - Ground 0v	Pin 16 - Ground 0v
Pin 4 - Trip Input 2	Pin 17 - Trip Input 1
Pin 5 - Trip Input 4	Pin 18 - Trip Input 3
Pin 6 - Trip Input 6	Pin 19 - Trip Input 5
Pin 7 - N/C	Pin 20 - STOP Input
Pin 8 - RUN Input	Pin 22 - Clock Output
Pin 10 - DATA RX	Pin 23 - DATA TX
Pin 11 - Ground 0v	Pin 24 - Ground 0v
Pin 12 - N/C	Pin 25 - N/C
Pin 13 - N/C	

#### 37 Way D-Type MAPS Trips / Control

Pin 1 - 5v Out	Pin 20 - 5v Out
Pin 2 - N/C	Pin 21 - N/C
Pin 3 - Switch Supply +	Pin 22 - Switch Supply +
Pin 4 - Ground 0v	Pin 23 - Ground 0v
Pin 5 - N/C	Pin 24 - N/C
Pin 6 - RL1 - COM	Pin 25 - RL1 - N/O
Pin 7 - RL2 - N/O	Pin 26 - RL2 - COM
Pin 8 - RL3 - COM	Pin 27 - RL3 - N/O
Pin 9 - RL4 - N/O	Pin 28 - RL4 - COM
Pin 10 - RL5 - COM	Pin 29 - RL5 - N/O
Pin 11 - RL6 - N/O	Pin 30 - RL6 - COM
Pin 12 - RL7 - COM	Pin 31 - RL7 - N/O
Pin 13 - RL8 - N/O	Pin 32 - RL8 - COM
Pin 14 - Fet2 - Out	Pin 33 - Fet1 - Out
Pin 15 - Fet4 - Out	Pin 34 - Fet3 - Out
Pin 16 - Fet6 - Out	Pin 35 - Fet5 - Out
Pin 17 - Fet8 - Out	Pin 36 - Fet7 - Out
Pin 18 - Ground 0v	Pin 37 - Ground 0v
Pin 19 - +12v Out	

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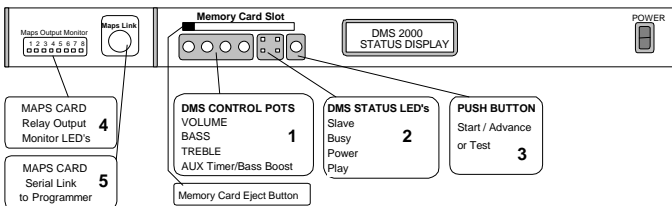
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### Front panel layout

#### Models DMS2010 and DMS2020



#### Models DMS2030 and DMS2040



#### 1. DMS Control Pots

Volume, Bass and Treble controls adjust the function stated on the DMS2000 Sound Store Card. Auxiliary (Aux) adjusts the Bass Boost level if enabled ( DMS board link B-6 NOT FITTED ) or the DMS onboard delay timer setting ( DMS board link B-6 FITTED ) adjust this pot to increase or decrease the interval timer setting, the LCD Status Display shows the current setting whilst the pot is being adjusted.

#### 2. DMS Status LED's

Slave when ON indicates that the DMS Sound Store is in Slave Mode and is being Clocked and controlled via a Master Sound Store. When OFF indicates the Sound Store is running in Master Mode from it's own Clock. Busy indicates when the Sound Store Card is Busy during Memory Card Registration etc. Power indicates that D.C. power is present on the Sound Store Card. Play indicates when a track is playing. Play and Busy LED,s flash alternately when the interval timer is running.

#### 3. Start / Advance Push Button

This button is assigned to trip input 1 and when pressed will play message 1 if it exists. It can also be used to advance the message sequencer if enabled. (DMS board link A-8 FITTED)

#### 4. MAPS Card Relay Monitor LED's

These LED's mimic the status of the 8 digital outputs of the MAPS Playback Card.

#### 5. MAPS Link socket

This socket provides the link between the MAPS Playback card and the Programming system whilst programming is in progress.

### DMS2000 Sound Store operation

#### Power Up with no Memory Card

On power up the unit checks to see if any Memory card is present if not the Status. Display will display the message NO FLASH CARD and flash the PLAY and BUSY status LED's alternately.

#### Power Up with Memory Card inserted

Powering up with a Memory card inserted will Display the Software Version and then either MASTER STORE STANDBY or SLAVE STORE STANDBY depending on the configuration of the DMS card.

#### Card Registration

This process involves the DMS Card scanning an inserted Memory card for valid message numbers and data. This process is carried out each time a new card is inserted or an existing card is removed and reinserted. The process is also carried out on power up.

#### Memory card Errors

During card registration if FLASH CARD ERROR is displayed, this indicates that the inserted Memory card contains no valid messages or is not formatted.

#### Message Playback

At this point if the DMS Sound Store has been configured for basic message repeating the unit is ready to receive valid Trip Codes and replay the relevant message.

The DMS Sound Store Card within the unit can be configured in different ways to enable features such as Message Sequencers, Interval Timers and many Trip Input configurations. For information on these options please refer to the DMS 2000 USER GUIDE.

### MAPS Playback Card

Models DMS2030 and DMS2040

#### Powering the MAPS Card

When power is applied to the unit it's internal Power Supply supplies power to the MAPS Playback Cards LOGIC SUPPLY ONLY. No power is applied to the MAPS Card Switch Supply. (this supply is often external to the unit depending on the application) However the units internal supply can be linked via the MAPS Card connectors on the rear of the unit to supply the Switch Supply. ( see diagrams )

#### Programming the MAPS Playback Card

Programming is carried out via the MAPS LINK socket on the front of the unit.

#### NOTE:

The MAPS Playback Card within the unit can be configured in a number of ways. For information on these options please refer to the MAPS

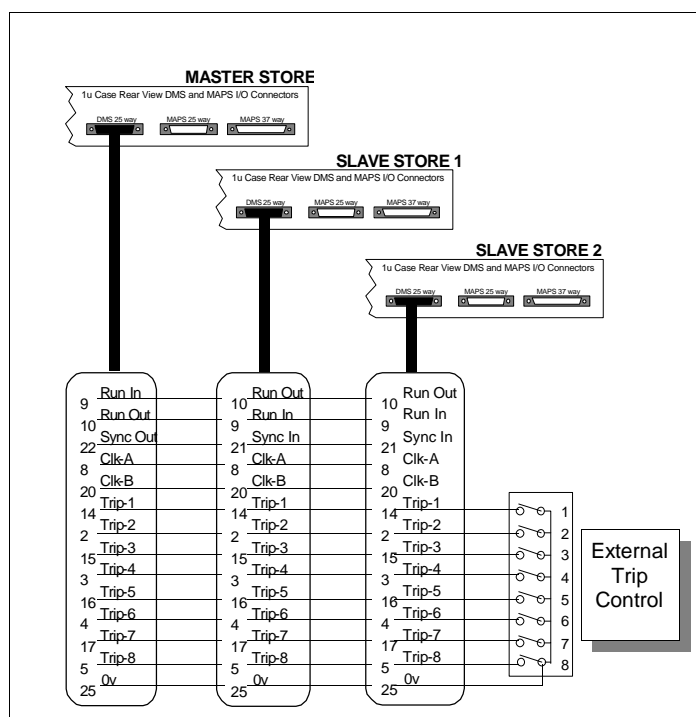
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### Synchronising Sound Stores

The example below shows how a number of sound stores can be run in sync controlled by one sound store configured as a master all other sound stores are configured as slaves.



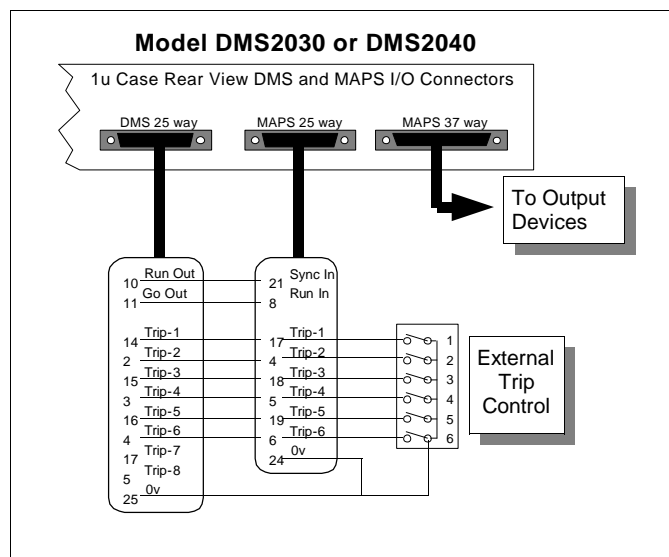
#### NOTE:

JP6 on MASTER STORE is not fitted (MASTER MODE)

JP6 on all SLAVE STORES must be fitted (SLAVE MODE)

### Synchronising Sound Store to MAPS

In the example below the DMS2000 Sound Store is controlling the MAPS card via the Sync and Run lines. This configuration is useful for example: if a message on the DMS2000 sound store is replayed in a loop by holding it's Trip Input active, at the loop point of the sound track the MAPS card is resynchronized.



#### NOTE:

MAPS CARD links LK3 ( External sync mode on ) and LK4 ( Sync input active high ) must both be fitted in the above example.

#### Trip Control as depicted

The above example assumes the following:  
DMS card is configured With Decimal Trip Input active LOW ( contact closure ) and has messages stored in locations 1 to 6.

MAPS card has 6 individual programmes stored in memory locations 1 to 6

#### Momentary trip

Momentary contact closure of any trip input will play the corresponding sound track and control programme back stopping at the end of the sound track.

#### Continuous tripping

Holding any trip input active will cause the corresponding sound track and control programme to loop. If the trip input is released both programs will continue playing until the end of the audio track then both programmes will stop.

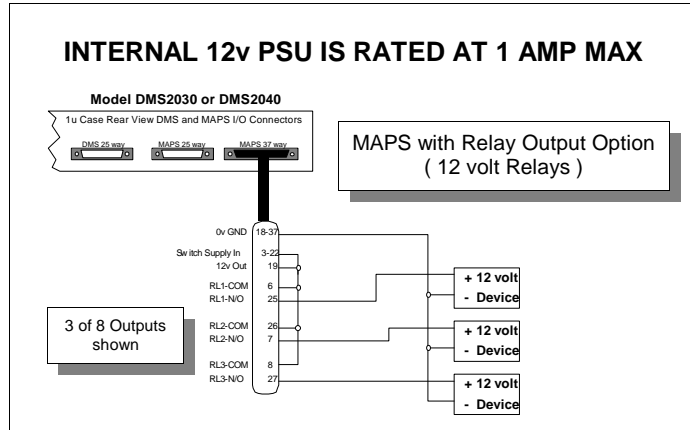
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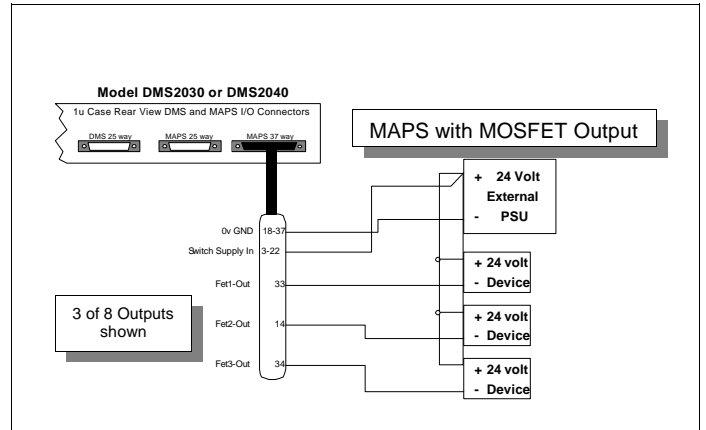
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### MAPS Switch Supply / Output configurations

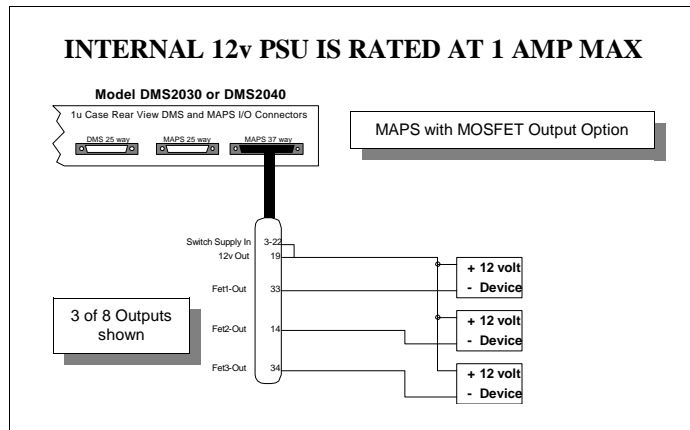
This example shows the the DMS units internal 12 volt PSU being used to power 12v external devices via the MAPS card RELAY outputs.



This example shows an external 24v PSU being used to power 24v external devices via the MAPS card MOSFET outputs.



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This example shows an external 24volt PSU being used to power 24v external devices via the MAPS card RELAY outputs.

