TN051.7 - LOUDSPEAKER RS232: MODELS INTRODUCED BEFORE 2022

Please note: This document is not applicable to Meridian loudspeakers or subwoofers introduced since the beginning of 2026. It does not apply to the following:

- DSP8000 XE
- DSP8000 Performance Pack
- DSP9
- DSP730 2026 Edition – identified by serial numbers starting with "3" or higher
- DSP750 2026 Edition - identified by serial numbers starting with "4" or higher
- DSW15 Subwoofer System

Details of RS232 commands for the products listed above can be found on Meridian TechNote **TN140 - Loudspeaker RS232: Models introduced since 2022.**

INTRODUCTION

RS232 is one of several interfaces carried by the Meridian SpeakerLink RJ45 / Cat5 connection. The Meridian Distributor 1, Distributor 3 and AC12 make this interface available on a standard RS232 connector.

DSP730 and DSP750 loudspeakers have an alternative RS232 connection on their front-panel. DSP520 and DSP640 loudspeakers had this alternative RS232 connection added to their front-panels with the introduction of the ".2" models late in 2018. This is designated on these models by serial number 300000 or later. Refer to the relevant user guide for these models for further details.

PRODUCT FIRMWARE

The firmware on some Meridian loudspeakers has been updated since those products were introduced. Some of the information contained in this document applies only to products running the latest appropriate firmware.

Refer to the product's user guide for how to check what version of firmware it is currently running. The latest firmware for products which have had their firmware updated since they were launched can be downloaded from the Dealer Resources section of the Meridian website. This means that if no firmware for a particular product is available from the website, no newer firmware is available for it and it does not require updating.

PORT SETTINGS

9600 Baud, 8 data bits, 1 stop bit, no parity, no flow control

COMMAND FORMAT

RS232 commands consist of ASCII characters which are case sensitive. Some commands require parameters, so these are followed by additional characters. All commands are terminated with a carriage return.

Example: To change the volume level to 45, the command is: **`VN45`**

This will provoke the loudspeaker to change its volume accordingly and to respond with: **`Volume 45`**

LOUDSPEAKER CONTROL COMMANDS

These commands are used for everyday control of one or more loudspeakers which are connected in some way via Meridian comms e.g. by a control system connected to the master loudspeaker through a Meridian Distributor 1 or Distributor 3.

Command Type	Code	Parameters	Meaning	Function	Example Response
Source Selection	CD	None, sb[1]	Select source	Select source 0	CD 65
	RD	None, sb[1]	Select source	Select source 1	Radio 65
	LP, AX or MS	None, sb[1]	Select source	Select source 2	SLS 65
	TV	None, sb[1]	Select source	Select source 3	TV 65
	TA, T1 or IP	None, sb[1]	Select source	Select source 4	iPod 65
	T2 or SA	None, sb[1]	Select source	Select source 5	SAT 65
	CR or DC	None, sb[1]	Select source	Select source 6	Disc 65
	CB	None, sb[1]	Select source	Select source 7	Cable 65
	TX or DV	None, sb[1]	Select source	Select source 8	DVD 65
	V1 or US	None, sb[1]	Select source	Select source 9	USB 65
	V2 or MX	None, sb[1]	Select source	Select source 10	Mixer 65
	LD or GA	None, sb[1]	Select source	Select source 11	Game 65
	SB	None	Standby	Standby	.
	MU	None	Mute	Mute	Mute 65
Volume	VN	##	Volume number	Go to volume number	Volume 65
	VP	None	Volume Plus	Increase volume	Volume 66
	VM	None	Volume Minus	Decrease volume	Volume 64
Audio Effects	TN	±##.#	Treble Number	Go to Treble number	Treble + 6.0
	BN	±##.#	Bass number	Go to bass number	Bass + 5.0
	LN	±##	Left number	Go to balance setting	Left 3
	RN	±##	Right number	Go to balance setting	Right 6
	P+	None	Phase +	Phase +	Phase +
	P-	None	Phase -	Phase -	Phase -
Display	DI	ON, OFF	Display	Light on or off	Light On

SOURCE CONTROL COMMANDS

These commands allow control of a Meridian source connected to the master loudspeaker. No response is given on RS232.

Code	Meaning/Function
PL	Play
ST	Stop
PS	Pause
RP	Repeat
NE	Next
PR	Previous
FF	Fast Forward
FB	Fast Back
MP	Menu up
MM	Menu down
ML	Menu left
MR	Menu right
N0 – N9	Number keys
SR	Store
CL	Clear

CONFIGURATION

These commands affect *only the connected loudspeaker*. They configure features of the speaker that would otherwise by inaccessible without a SpeakerLink capable controller. The settings made are non-volatile (i.e. they remain when the loudspeaker is powered-down). These settings can override commands from a SpeakerLink controller, so they should be used with caution. To restore SpeakerLink control, it is necessary to reset the setting on the speaker by sending the relevant command with the "SL" parameter included.

Command Type	Code	Parameters	Meaning	Example Response
IR receiver[2]	IR	ON	Turns on IR receiver eye	IR on
		OFF	Turns off IR receiver eye	IR off
High Power Array (HPA)[8]	AR	PRI	Set as 'Primary' speaker within the HPA	NV HPA Mode Primary
		SEC	Set as 'Secondary' speaker within the HPA	NV HPA Mode Secondary
		OFF	Turn off HPA processing	NV HPA Mode OFF
Speaker position	BO	SL	Free-Q setting controlled by SpeakerLink	NV Boundary Speakerlink
		FR	Free-Q set to "Free"[3]	NV Boundary Free
		WA	Free-Q set to "Wall"	NV Boundary Wall
		SH	Free-Q set to "Shelf"	NV Boundary Shelf
		CO	Free-Q set to "Corner"	NV Boundary Corner
Subwoofer	SW	SL	Subwoofer Controlled By SpeakerLink	NV Subwoofer Speakerlink
		OFF	Subwoofer Off	NV Subwoofer Off
		1	Subwoofer Crossover 1	NV Subwoofer Sub 1
		2	Subwoofer Crossover 1	NV Subwoofer Sub 2
		WI	Subwoofer Wideband	NV Subwoofer Speakerlink
	SG	+/-##	Subwoofer Gain[4]	NV Sub Gain 12
Audio Effects	EA	SL, ON, OFF	Enhanced Bass Alignment (aka FFA – Full Frequency Alignment)	NV EBA On
	EC	SL, OFF, MIN, MED, MAX	Enhanced Boundary Control (aka Resonance Control)	NV EBC Med
	RH	###	Room Height in cm for EBC[5]	NV EBA Room Height 210cm
	CE	SL, OFF, MIN, MED, MAX	Centre Elevation (aka Image Elevation)	NV Centre Elevation Min
	LO	SL, ON, OFF	Loudness (aka Precision Balance)	NV Loudness Speakerlink
	Cm[6]	ON, OFF	Centre mode	NV Left or Centre
	Mm	SL, MU,MO	Music/Movie Mode[7]	NV Music Mode
Status / Reset	NV	None	Non-volatile	A list of the non-volatile settings
		RS	Non-volatile Reset	Resets all non-volatile settings

UTILITY/DIAGNOSTIC

Code	Meaning	Response
IR[2]	Infra-red receiver status	IR on / IR off
Cm	Centre mode status	A text description of the status
ID	Identity	A list of product name and versions
!R	Reset	Bye

NOTES

1. When in standby, a source selection command may be followed by sb (e.g. CDsb). This allows a connected **Distributor 1** or **Distributor 3** to change source, while the speakers remain in standby.
2. Available only on in-wall loudspeakers.
3. The Free-Q setting for "Free" is not available on in-wall loudspeakers.
4. The non-volatile subwoofer gain is only used when the non-volatile subwoofer setting is not SL. The range is -15 to +15 in 1dB steps.
5. The non-volatile room height is only used when the non-volatile EBC setting is not SL. The range is 150 to 400cm in 1cm steps.
6. Centre mode applies only to DSP520.2, DSP640.2, DSP730 and DSP750.
7. Music/Move mode applies only to the Meridian DSW, DSW.2 and DSW600.
8. HPA applies only to DSP520.2, DSP640.2, DSP730 and DSP750.

DOCUMENT VERSION RECORD

Version	Originator	Date	Modifications
00	RJH	17.10.13	First version of this document
01	DJF	25.07.18	Added DSP320, DSP3200 and DSP3300 to product list. Added command for IR on, off and status.
02	DJF	06.02.19	Centre mode added. DSP520/640 front-panel connection added and new commands for firmware version 1.3.6
03	DJF	10.06.20	Added DSP320.2, DSP750 and DSW.2 as appropriate. Introduction to CONFIGURATION section edited for clarity.
04	DJF	19.07.23	Added DSP730 and DSW600 as appropriate.
05	DJF	31.01.24	Updated Technology names added. Replaced **PRODUCTS AND VERSIONS** with **PRODUCT FIRMWARE** section. Expanded mentions of **Distributor** to cover D1 and D3. Updated document name, **DSP** changed to **DIGITAL ACTIVE**.
06	DJF	13.01.25	Added settings for HPA.
07	DJF	17.09.26	Added reference to models introduced since 2022