

RS232 Commands

To control the OE-IA-1270 via RS232, first connect the amp to an appropriate RS232 controller per the connection instructions in Control Connections/RS232I/O. Then use this section of alphanumeric text commands to program the controller for OE-IA1270 RS232 control by zone. For Zone states use the RS232 Queries section to get feedback on various zones' status

Baud: 9600

Data Bits: 8

Parity: None

Stop Bits: 1

Flow Control: None



OE-IA-1270 RS232 COMMANDS

NAME	COMMAND	REMARKS
Zone Power	!{z#}PR{0/1}+	To turn on Zone 2: !2PR1+
		To turn off Zone1: !1PR0+
Zone Power Toggle	!{z#}PT+	
Zone Volume	!{z#}VO{v#}+	
Zone Vol. Inc.	!{z#}VI+	
Zone Vol. Dec.	!{z#}VD+	
Zone Input Select	!{z#}IS{0/1}+	To select BUS: !2IS0+
		To select LINE: !2IS1+
Zone Input Select Toggle	!{z#}IT+	
Channel Input Select	!{c#}CS{0/1}+	To select BUS: !2CS0+
		To select LINE: !2CS1+
Channel Input Select Toggle	!{c#}CT+	
Mute	!{z#}MU{0/1}+	To mute Zone 3: !3MU1+
		To unmute Zone 4: !4MU0+
Mute Toggle	!{z#}MT+	
Treble	!{z#}TR{bt#}+	
Treble Increment	!{z#}TI+	
Treble Decrement	!{z#}TD+	
Bass	!{z#}BS{bt#}+	
Bass Increment	!{z#}BI+	

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NAME	COMMAND	REMARKS
Bass Decrement	!{z#}BD+	
Balance	!{z#}BA{b#}+	
Balance Step Left	!{z#}BL+	
Balance Step Right	!{z#}BR+	
Zone Activity Auto Update	!ZA{0/1}+	Enable/Disable Auto Update of the Zone Information when Zone Activity is Detected. (See below for format of the output.)
Zone Max. Volume	!{z#}MX+	Sets current volume setting as a maximum desired volume level for a specific zone. The volume is first adjusted to what is desired as a maximum level. The Zone Max. Volume command is then activated to lock in the setting. This acts as a volume limiter for the system

Where:

{z#} - Zone Number. Range is 1..6

{c#} - Channel Number. Range is 1..12

{0/1} – Either 0 (zero) or 1 (one). 0 – Off, 1 – On.

{v#} - Volume Setting. Range is 0..38. See VOLUME LEVEL table below.

{bt#} - Bass/Treble Setting. Range is 0..14. See BASS/TREBLE LEVEL table below.

{b#} - Balance Setting. Range is 0..63. See BALANCE LEVEL table below.

RS232 Queries

OE-IA-1270 RS232 QUERIES

NAME	QUERY	RESPONSE	EXAMPLE RESPONSE	EXPLANATION
Zone Volume	?{z#}VO+	?{z#}VO{v#}+	?4VO49+	Zone 4 is currently at volume level 49.
Channel Volume	?{c#}CH+	?{c#}CH{v#}+	?4VO49+	Channel 4 is currently at volume level 49.
Mute	?{z#}MU+	?{z#}MU{0/1}+	?8MU1+	Zone 8 is currently muted.
Power	?{z#}PR+	?{z#}PR{0/1}+	?8PR1+	Zone 8 is currently powered on.
Input Select	?{z#}IS+	?{z#}IS{0/1}+	?8IS1+	Zone 8 input selection is on LINE.
Treble	?{z#}TR+	?{z#}TR{bt#}+	?1TR7+	Zone 1 currently has a treble value of 7 (flat)
Bass	?{z#}BS+	?{z#}BS{bt#}+	?1BS7+	Zone 1 currently has a bass value of 7 (flat)
Balance	?{z#}BA+	?{z#}BA{t#}+	?2BA31+	Zone 2 currently has a balance value of 31 (even)
Zone Activity Auto Update	?ZA+	?ZA{0/1}+	?ZA1+	Zone Activity Auto Update is enabled
Zone Status	?{z#}ZS+	See Below	See Below	Returns the complete status of the Zone.

Where:

{z#} - Zone Number. Range is 1..6

{c#} - Channel Number. Range is 1..12

{0/1} - Either 0 (zero) or 1 (one). 0 - Off, 1 - On.

{v#} - Volume Setting. Range is 0..38. See VOLUME LEVEL table below.

{bt#} - Bass/Treble Setting. Range is 0..14. See BASS/TREBLE LEVEL table below.

{b#} - Balance Setting. Range is 0..63. See BALANCE LEVEL table below.

RS232 Commands

Zone Activity and Zone Status

ZA – Zone Activity Auto Update Enable Command. Format - !ZA{0/1}+

ZS – Zone Status Query. Format - ?(z#)ZS+

Zone Activity Auto Update Enable Command

The Activity Update will cause the system to send out the complete Zone State whenever something in the zone changes. The State string will be sent out one second after activity in the zone stops.

Also, the Metadata will be sent out whenever it changes.

Zone Status Query

The Zone Status Query will cause the system to send out the full Zone State string along with the Zone Metadata string(s), for the specified zone.

IMPORTANT NOTE: Also, use the highest baud rate that the receiving system can support.

When the Amplifier sends out complete Zone Status, (either due to an explicit query or due to an Auto Update, the data is formatted a bit differently than the standard responses to a Command or Query.

All of the Zone Info / Zone Status output lines will begin with the character '#' (the sharp, or number sign).

The format of the Zone State is:

#(z#)ZS VO{v#} PO{0/1} MU{0/1} IS{0/1}+

An example:

#6ZS VO8 PO1 MU0 IS0+

This line tells us the following info about Zone 6:

Zone Volume – 8

Power – On

Mute – Off

Input Select – Bus



RS232 Settings

OE-IA-1270 VOLUME LEVEL SETTINGS

OE-IA1250 SETTING	ATTENUATION LEVEL
38	0
37	-1.25
36	-2.50
35	-3.75
34	-5.00
33	-6.25
32	-7.50
31	-8.75
30	-10.00
29	-11.25
28	-12.50
27	-13.75
26	-15.00
25	-16.25
24	-17.50
23	-18.75
22	-20.00
21	-21.25
20	-22.50
19	-23.75
18	-25.00
17	-27.50
16	-30.00
15	-32.50
14	-35.00
13	-37.50
12	-40.00
11	-42.50
10	-45.00
9	-47.50
8	-50.00
7	-52.50
6	-56.25
5	-60.00
4	-63.75
3	-67.50
2	-71.25
1	-75.00
0	-78.75