

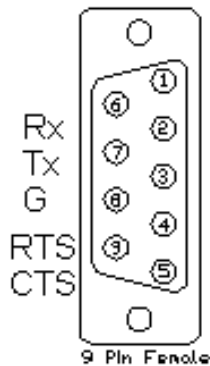
**Partner: Bose**  
**Model: ESP-88**  
**Device Type: Output Interface v1.0**



### GENERAL INFORMATION

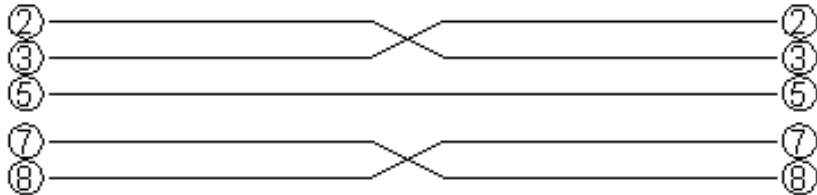
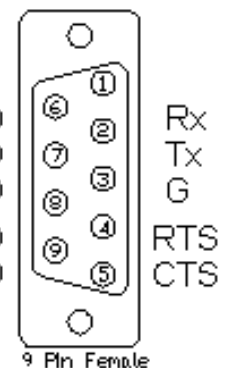
<b>SIMPLWINDOWS NAME:</b>	Bose ESP Output Interface v1.0
<b>CATEGORY:</b>	Multi-Zone
<b>VERSION:</b>	1.0
<b>SUMMARY:</b>	This module controls an Output object within the Bose ESP-88 configuration.
<b>GENERAL NOTES:</b>	This module controls an Output object within the Bose ESP-88 system. Please note that in the Bose configuration the Output name needs to be prefaced with an “#” (such as #Output1). This enables the Bose unit to send unsolicited real-time feedback to the Crestron unit when any changes are made.
<b>CRESTRON HARDWARE REQUIRED:</b>	X-Series Processor, CNX-COM2, ST-COM, 2-Series Processor, C2COM3
<b>SETUP OF CRESTRON HARDWARE:</b>	RS232 Baud: 38400 Parity: N Data Bits: 8 Stop Bits: 1
<b>VENDOR FIRMWARE:</b>	None
<b>VENDOR SETUP:</b>	None
<b>CABLE DIAGRAM:</b>	CNSP-532

Rear View of Connector



## CNSP-532

Rear View of Connector



**Partner: Bose**  
**Model: ESP-88**  
**Device Type: Output Interface v1.0**


**CONTROL:**

<b>Output_Level_In</b>	A	Use to set output level. Signed. Range from -32768 to +32767. Connect to slider definition.
<b>Output_Level_Up/Down</b>	D	Press to increase or decrease output level.
<b>Output_Mute_On/Off/Toggle</b>	D	Pulse to turn output mute on or off.
<b>Output_Enable</b>	D	Latch high to enable serial communications with unit.
<b>Output_Read</b>	D	Pulse to poll for current output status.
<b>From_Device</b>	S	Serial signal to be routed from an RS-232C port

**FEEDBACK:**

<b>Output_Level_Out</b>	A	Indicates the current output level. Range from -32768 to +32767. Connect to slider definition.
<b>Output_Level_Out_Text</b>	S	Text field indicating output level. Range is from -60.0 to 12.0db.
<b>Output_Mute_Is_On/Off</b>	D	Indicates the current output mute status.
<b>To_Device</b>	S	Serial signal to be routed to an RS-232C port

**PARAMETER:**

<b>Step</b>	A	Use to set the volume up/down step increment.
<b>Module Name</b>	D	The name of the Output module in the Bose ESP-88 configuration that this module will be communicating with. Note: The module name in the Bose configuration needs an “#” prefix, while the name entered in this module does not.

**TESTING:**

<b>OPS USED FOR TESTING:</b>	v3.155.1240
<b>SIMPL WINDOWS USED FOR TESTING:</b>	v2.10.32
<b>DEVICE DB USED FOR TESTING:</b>	20.03.013.00
<b>CRES DB USED FOR TESTING:</b>	20.01.008.00

**Partner: Bose**  
**Model: ESP-88**  
**Device Type: Output Interface v1.0**



<b>SYMBOL LIBRARY USED FOR TESTING:</b>	576
<b>SAMPLE PROGRAM:</b>	Bose ESP-88 Demo PRO2
<b>REVISION HISTORY:</b>	v1.0 – Initial Release