BSS: Soundweb London

This module controls an "N-input Gain" object in a Soundweb London program.
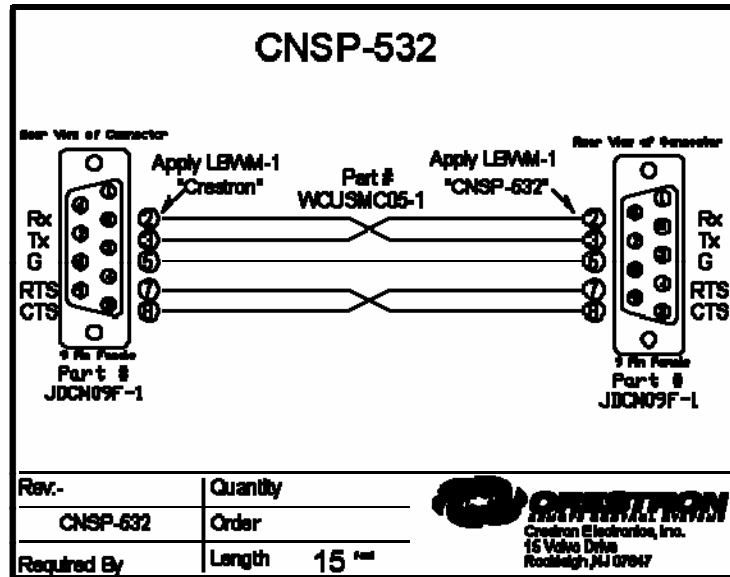
GENERAL INFORMATION

SIMPLWINDOWS NAME:	BSS Soundweb London N-input Gain v5.4
CATEGORY:	Mixer
VERSION:	v5.4
SUMMARY:	This module controls an "N-input Gain" object in a Soundweb London program.
GENERAL NOTES:	Each object in a Soundweb London program is given an object number. You have to specify the object id of the "N-input Gain" object that is to be controlled. (objectID parameter)
	The TX and RX of this module should be connected to a "BSS Soundweb London Node v5.4.usp" module. This "Node" module needs to have its "Node" parameter set to the node of the Soundweb London device to control.
	All analog input and outputs range from 0d to 65535d (0% to 100%)
	When you subscribe to a State-Variable, the Soundweb London will send an unsolicited updates automatically whenever that state-variable is changed in order to keep the Crestron system in sync with the London without requiring extra effort from the programmer to set up 'polling', or requiring the Crestron processor to constantly check for updates. The first time the subscribe message is sent the Soundweb London will respond with its current state much like a 'GET' statement. The Soundweb London will keep sending updates until a 'UNSUBSCRIBE' input is pulsed. Normal practice would be to tie the Subscribe input to the TCP/IP connection feedback so that if a socket is dropped it will automatically sync when the socket is re-established. If using RS232, putting a 1 on the subscribe input will ensure true-feedback. NOTE: The subscribe and un-subscribe signals must be mutually exclusive as transitions from low-to-high while the other signal is already high is not allowed. If this error state is encountered, an error message will be sent to the console.
	With the "input" analog input you can specify which input on the "N-input Gain" object you want to control.
CRESTRON HARDWARE REQUIRED:	X-series or preferable 2-series
SETUP OF CRESTRON HARDWARE:	The demo program was created on a CP2E with TPS-4000
	The Soundweb London is to be connected on a com port with a standard crossed cable and the following settings:
	115200, 8, 1, N
	Or to use TCP/IP: Port 1023
VENDOR FIRMWARE:	3.06
VENDOR SETUP:	Soundweb London Blu-160

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CABLE DIAGRAM:

CONTROL:

gain	A	set the gain value (-inf to 10) of the currently selected input
Mute	D	pulse to mute the currently selected input
Unmute	D	pulse to unmute the currently selected input
polarityOn	D	pulse to set polarity of the currently selected input on
polarityOff	D	pulse to set polarity of the currently selected input off
subscribe	D	Subscribe to all functions (state variables) of the object

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unsubscribe	D	unSubscribe to all functions (state variables) of the object
input	A	specify which input of the "N-input Gain" object is to be controlled (1-32)
rx	S	connected to the "modulesRx" of the correct "BSS Soundweb London Node v5.4.usp" module

FEEDBACK:

gain_fb	A	Gain feedback of the currently selected input
mute_fb	D	mute feedback of the currently selected input
polarity_fb	D	polarity feedback of the currently selected input
tx	S	connected to the "modulesTx" of the correct "BSS Soundweb London Node v5.4.usp" module

PARAMETERS:

objectID	d	specifies which objectID is to be controlled. (3 bytes, for example: "\xOO\xOO\xO1") (get this information from the BSS programmer)

TESTING:

OPS USED FOR TESTING:	4.003.0015
COMPILER USED FOR TESTING:	4.03.20
SAMPLE PROGRAM:	BSS Soundweb London v5.4 Demo Program

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REVISION HISTORY:

V1.0 Creation

V3 – BSS made changes to a number of modules.

V4.0 – Changed the RX$ input on the Simpl+ modules to from a STRING_INPUT to a BUFFER_INPUT. Changed the room combine module so it requests the current value when it is done making changes.

V4.1 – Changed subscribing to two input signals one for subscribing and one for unsubscribing. Changed the module from an .usp file and an .umc file to just an .usp file.

V4.2 – Fixed rounding error, and updated the help file.

V5.4 – Incorporated 3-series best practices in all Simpl+ files.