BSS: Soundweb London

This module controls an “Analog Input Card“ object in a Soundweb London program.

GENERAL INFORMATION

SIMPLWINDOWS NAME:	BSS Soundweb London Analog Input Card v4.2
CATEGORY:	Mixer
VERSION:	V4.2
SUMMARY:	This module controls an “Analog Input Card“ object in a Soundweb London program.
GENERAL NOTES:	Each object in a Soundweb London program is given an object number. As “Analog Input Card“ objects always have the same object ID, you just have to specify which “Analog Input Card“ you want to control. (“card“ parameter) The TX and RX of this module should be connected to a “BSS Soundweb London Node v4.2.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%) unless otherwise specified. 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. All subscribed stateVariables report their value when changed. The meter stateVariable reports its value a defined times per second. So when subscribing a rate has to be defined for the meter value to be reported. (meterRate parameter) The parameter is set in milliseconds. 1d is “report meter value 1000 times per second) Please keep in mind that setting a value too low, will result in heavy data transmit.
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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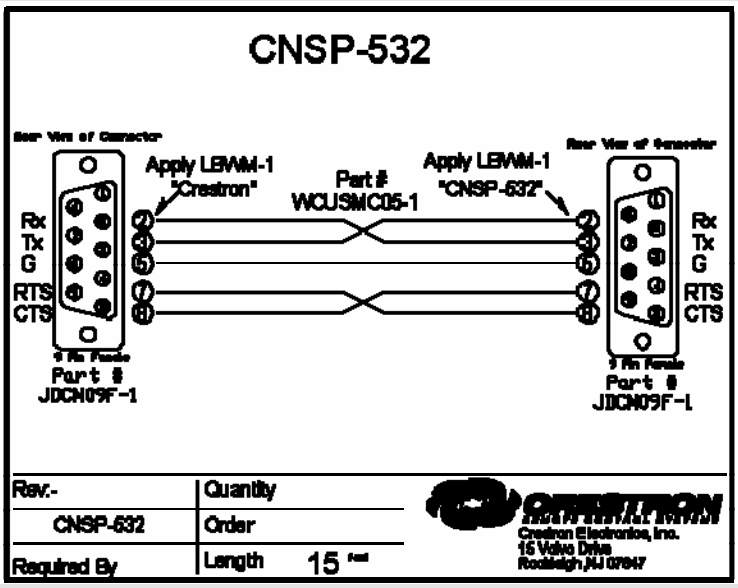
CABLE DIAGRAM:



CONTROL:

channel_x_reference	A	set the reference value (-50 to 20) of channel X
channel_x_attack	A	set the attack value (l0ps to 0.2s) of channel X
channel_x_release	A	set the release value (50ms to 5s) of channel X
channel_x_gain	A	set the gain value (0dB to 48dB) of channel X. See BSS Soundweb London Analog Input Card with discrete gain for changing gain with discrete values 0-8. (0 = 0dB, 1 = 6dB, …)
channel_x_phantomSwitchOn	D	set phantom switch of channel X to on (pulse)
channel_x_phantomSwitchOff	D	set phantom switch of channel X to off (pulse)
channel_x_muteOn	D	Pulsing input high will mute channel X.
channel_x_muteOff	D	Pulsing input high will unmute channel X.

channel_x_muteToggle	D	Pulsing input high will toggle the mute for channel X.
Meter_subscribe	D	Setting this input high will subscribe to the meters. Setting it low will unsubscribe to the meters.
subscribe	D	subscribe to all functions (state variables) of the object
unsubscribe	D	unsubscribe to all functions (state variables) of the object
rx	S	connected to the “modulesRx“ of the correct “BSS Soundweb London Node v4.2.usp“ module

FEEDBACK:

channel_x_meter_fb	A	meter feedback of channel X
channel_x_reference_fb	A	reference feedback of channel X
channel_x_attack_fb	A	attack feedback of channel X
channel_x_release_fb	A	release feedback of channel X
channel_x_gain_fb	A	gain feedback of channel X
channel_x_phantomSwitchOn_fb	D	phantomSwitchOn feedback of channel X
channel_x_phantomSwitchOff_fb	D	phantomSwitchOff feedback of channel X
channel_x_mute_fb	D	mute feedback of channel X
tx	S	connected to the “modulesTx“ of the correct “BSS Soundweb London Node v4.2.usp“ module

PARAMETERS:

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card	d	Specifies which card is to be controlled. A, B, C or D
meterRate	d	set the rate in which the Soundweb London has to report back the meter value. Milliseconds: 1000d = once per second

TESTING:

OPS USED FOR TESTING:	4.003.0015
COMPILER USED FOR TESTING:	2.12.44
SAMPLE PROGRAM:	BSS Soundweb London v4.2 Demo Program
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 – Added mutes, Added an input card discrete module, fixed rounding error, and updated help file.

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