Partner: ClearOne
Model: Converge
Device Type: Conferencing

GENERAL INFORMATION

SIMPLWINDOWS NAME:	ClearOne Converge Signal Generator v1.3
CATEGORY:	Conferencing
VERSION:	1.3
SUMMARY:	Allows control of the internal signal generator
GENERAL NOTES:	To allow for this flexibility of use, you must specify which ClearOne model is being controlled using the TYPE-ID-ASCII and TYPE-ID-HEX parameter fields. Currently valid entries are a single value (1, 2, 3, D, G H, I or E and 31, 32, 33, 44, 47, 48, 49 or 45) with no suffix as shown below: For Converge 880, use 1 and 31 For Converge TH20, use 2 and 32 For Converge 840T, use 3 and 33 For Converge 8i, use A and 41 For Converge 880T, use D and 44 For Converge SR1212, use G and 47 For Converge 880TA, use H and 48 For Converge SR1212A, use I and 49 For Converge VH20, use E and 45 Multiple devices can be connected to the ClearOne bus and controlled from a single RS232 port. Therefore, it is also necessary to enter the Unit ID of the device being controlled. This should be entered in the UNIT-ID-ASCII parameter field as a single digit number from from 0-F (for the TH20) or 0-7 (for the remaining models) with no suffix. This module allows the parameters of the internal signal generator to be adjusted. It allows selection of signal type as pink noise, white noise, or tone, and it allows the adjustment of both amplitude and frequency. Note that frequency is only used during tone generation. Note that this has only been tested with the ClearOne Converge 840T as of this release.
CRESTRON HARDWARE REQUIRED:	CNX-COM2, ST-COM, 2-Series Processor, C2COM3
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 57600 Parity: N Data Bits: 8 Stop Bits: 1 RTS/CTS Handshaking should be enabled to insure no data is lost.

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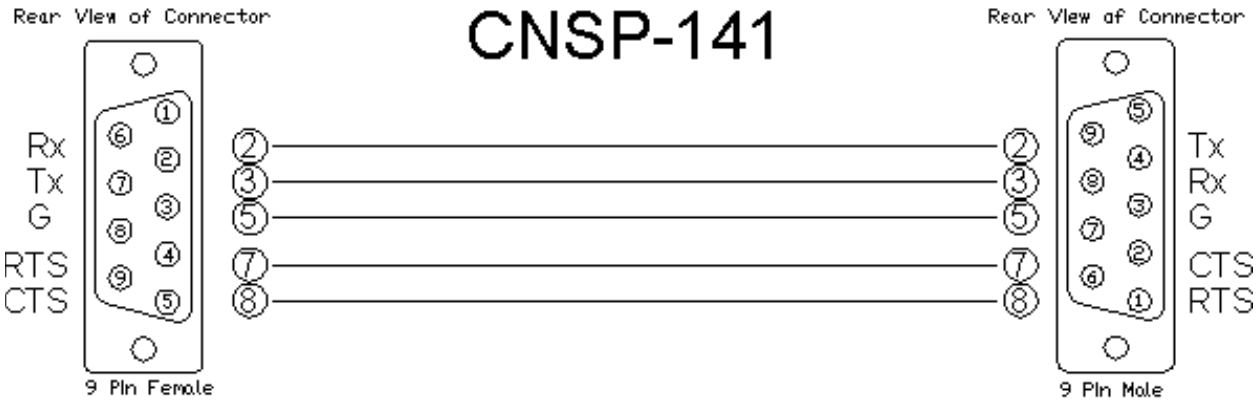
VENDOR FIRMWARE:	3.0.1.0
VENDOR SETUP:	Flow control should be set to "on". The baud rate should be set to 57600.
CABLE DIAGRAM:	CNSP-141



CONTROL:

SIGNAL-PINK/WHITE/TONE	D	Pulse to select which type of signal to generate.
SIGNAL-ON/OFF	D	Pulse to turn the signal on/off.
AMPLITUDE-UP/DOWN	D	Press and hold to ramp the amplitude up/down.
AMPLITUDE-SLIDER	A	Can be connected to an analog input from a touch.
FREQUENCY-UP/DOWN	D	Press and hold to ramp the frequency up/down.
FREQUENCY-SLIDER	A	Can be connected to an analog input from a touch panel to allow control from a slider object.
CHANNEL-*-IN	D	Pulse to select which input channel to use.
FROM-CLEARONE-PROCESSOR$	S	Serial feedback from the ClearOne Converge Feedback Processor module.

FEEDBACK:

SIGNAL-*-FB	D	Indicates which type of signal was selected.
SIGNAL-ON-FB	D	High when the signal generator is on.
AMPLITUDE-BAR	A	Indicates the relative level of the amplitude. Should be routed to a bargraph.

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AMPLITUDE-TEXT$	S	Indicates the amplitude in dB format. Should be routed to an indirect text field.
FREQUENCY-BAR	A	Indicates the relative level of the frequency. Should be routed to a bargraph.
FREQUENCY-TEXT$	S	Indicates the frequency in Hz. Should be routed to an indirect text field.
CHANNEL-*-FB	D	Indicates which input channel was selected.
To_Device$	S	Serial signal to be routed to a 2-way RS232 port.

PARAMETERS:

TYPE-ID-ASCII	S	Enter 1 for 880, 2 for TH20, 3 for 840T, A for 8i, D for 880TA, G for SR1212, H for 880TA, I for SR1212A and E for VH20.
TYPE-ID-HEX	S	Enter 31 for 880, 32 for TH20, 33 for 840T, 41 for 8i, 44 for 880T, 47 for SR1212, 48 for 880TA, 49 for SR1212A and 45 for VH20.
UNIT-ID-ASCII	S	Enter the unit number of the ClearOne Converge unit being controlled. Should be a number from 0-F, depending on the device type.

TESTING:

OPS USED FOR TESTING:	v4.001.1012
SIMPL WINDOWS USED FOR TESTING:	v2.11.27
DEVICE DB USED FOR TESTING:	v26.00.005.00
CRESTRON DB USED FOR TESTING:	v21.02.016.00
SYMBOL LIBRARY USED FOR TESTING:	v648
SAMPLE PROGRAM:	ClearOne Converge Series Demo PRO2.smw
REVISION HISTORY:	v1.0 – Original release. v1.1 – Added Type-ID-HEX parameter. v1.2 – Added Parameter ID for amplifier output, for 880TA and SR1212A. v1.3 – Added Type-ID parameter values for VH20.

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