SIMPLWINDOWS NAME:	Gentner XAP800/PSR1212 Signal Generator
CATEGORY:	Conferencing
VERSION:	1.0
SUMMARY:	Allows control of the internal signal generator
GENERAL NOTES:	The commands used for the PSR1212 mixer are similar to the commands used for the Gentner AP800/AP400. Therefore the same modules developed for the PSR1212 may work on other (past and future) Gentner products. To allow for this flexibility of use, you must specify which Gentner model is being controlled using the TYPE-ID-ASCII parameter field. Currently valid entries are a single digit from 1 to 4 with no suffix as shown below: For PSR1212, use 4 For AP400, use 3 For AP10, use 2 For AP800, use 1 Multiple devices can be connected to the Gentner 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 0-8 with no suffix. This module allows the parameters of the PSR1212 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.
CRESTRON HARDWARE REQUIRED:	CNXCOM, ST-COM
SETUP OF CRESTRON HARDWARE:	Baud Rate -38400 Parity - None Data Bits - 8 Stop Bits - 1 RTS and CTS Handshaking should be enabled to insure no data is lost.
VENDOR FIRMWARE:	PSR1212 - 1.0.3 XAP-800 - 1.1.0
VENDOR SETUP:	Flow control should be set to "on". The baud rate should be set to 38400.
CABLE NUMBER:	CNSP-141

CONTROL:

SIGNAL-PINK/WHITE/TONE	D	Pulse to select which type of signal to generate. Signal must be off before making this adjustment
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 touchpanel to allow control from a slider object
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 touchpanel to allow control from a slider object
CHANNEL-*-IN	D	Pulse to select which input channel to use
TYPE-ID-ASCII	P	Enter 4 for PSR1212, 5 for XAP800
UNIT-ID-ASCII	P	Enter the unit number of the PSR1212/XAP800. Should be a number from 0-8

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
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

OPS USED FOR TESTING:	5.12.26x
COMPILER USED FOR TESTING:	SimplWindows Version 1.61.12
SAMPLE PROGRAM:	Gentner XAP800/PSR1212 Demo Program
REVISION HISTORY:	None