Partner: QSC-Q-SYS
Model: Q-SYS Cores
Device Type: DSP

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Q-SYS [Level Control] V5.2
CATEGORY:	Q-SYS V5
VERSION:	V5.2
SUMMARY:	This module is used to control level/value of a gain type object.
GENERAL NOTES:	NOTE: Requires Crestron Database and Crestron Device Database v200 or later. This module is used to control a Q-SYS named control object, as defined in the Q-SYS software. It is to be used in partner with one Q-SYS Core module with the same Core ID parameter. This module can be used to control gains/levels on defined objects.
CRESTRON HARDWARE REQUIRED:	Ethernet Card – 3-Series Only
SETUP OF CRESTRON HARDWARE:	3-Series Only
VENDOR FIRMWARE:	Unknown
VENDOR SETUP:	Setup of Q-SYS Design file, "Named Controls" of desired components for control.

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CRESTRON
CERTIFIED INTEGRATED PARTNER

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CONTROL:

Initialize	D	Hold to initialize, and register this module to its respective Core module. Usually driven from the "Initialized" signal of the Core module.
[Value_In_%]	A	Optional – Value to set relative position of a gain to its object. Valid values are 0%-100% (0d-65535d),
[Value_In_%_RL]	A	Optional – Value to set relative position of a gain to its object. Valid values are 0%-100% (0d-65535d), This value will be ramped, or rate limited (defined by parameter). Usually attached to an Analog Initialize.
[Value_In_dB]	A	Optional – Value to set direct value of a gain type object. Valid values are based on min and max of Q-SYS object. Valid format 200d = 20.0dB, -523d = -52.3dB.
[Value_In_dB_RL]	A	Optional – Value to set direct value of a gain type object. Valid values are based on min and max of Q-SYS object. This value will be ramped, or rate limited (defined by parameter). Usually attached to an Analog Initialize. Valid format 200d = 20.0dB, -523d = -52.3dB.
[Level_Up/Down]	D	Optional – Raises and Lowers current value of object (based on relative value)
[Poll_Enable]	D	Optional – Hold high to add object to Core polling group, object will be "polled" at the interval defined by the Core module. Recommend to use only when viewing/needing this value. E.g. when viewing desired page.

FEEDBACK:

[Value_Out_%]	A	Optional – Current relative value of a gain type object (0%-100%).
[Value_Out_dB]	A	Optional – Current direct value of a gain type object -1000d = -100.0dB, 50d = 5.0dB
[Value_Out_String]	D	Optional – Current direct value of a gain type object in a string format.

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PARAMETERS:

Core ID	Dec	Used to register this module to its respective Core Module.
Named Control	S	String to identify the object in Q-SYS design to control. Setup in the Q-SYS design software.
Ramp Time	Dec	Value to determine overall ramp time of object. Raise/Lower, or Analog inputs_RL
Feedback Ramp	List	Yes – will smooth out feedback ramping process when no input is being provided. This all is in relation the Core module poll interval time.

TESTING:

OPS USED FOR TESTING:	v4.001.1012
SIMPL WINDOWS USED FOR TESTING:	4.14.20
DEVICE DB USED FOR TESTING:	200.00.015.00
CRES DB USED FOR TESTING:	200.00.004.00
SYMBOL LIBRARY USED FOR TESTING:	1112
SAMPLE PROGRAM:	Q-SYS V5.2 Demo Program
REVISION HISTORY:	V4.0 – Completely Revamped Module Set. V4.2 – Fixed Initialization Issue, More Efficient V5.0 – Recompiled with Newtonsoft v4.0.8.0 for Crestron Database v200 V5.1 – Various bug fixes V5.2 – Changed S# Library name

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