



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

GENERAL INFORMATION

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| SIMPLWINDOWS NAME: | Q-SYS [Level Control] V5.3 |
| CATEGORY: | Q-SYS V5 |
| VERSION: | V5.3 |
| SUMMARY: | This module is used to control level/value of a gain type object. |
| GENERAL NOTES: | <p>NOTE: Requires Crestron Database and Crestron Device Database v200 or later.</p> <p>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.</p> |
| 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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CONTROL:

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| 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/need this value. E.g. when viewing desired page. |

FEEDBACK:

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| [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:

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| 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:

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| 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 V5.3 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 V5.2.1 – Fixed memory leak issue V5.3 – Fixed syncing issues on VC4 |