

**Partner:QSC-QSYS****Model:Qsys Cores****Device Type:DSP****GENERAL INFORMATION**

SIMPLWINDOWS NAME:	QSYS Control-[Knob-Fader] V3.0
CATEGORY:	QSYS V3
VERSION:	V3.0
SUMMARY:	This Module is used for controlling a Knob/Fader component as dictated in the QSYS Designer Software.
GENERAL NOTES:	<p>This Module provides control and feedback of a "Named Control" component in the QSYS Designer software. This module is specifically designed to be used on a knob or fader component in the QSYS design, but can be used for other components as well. Example, "Text Field"</p> <p>Must use with QSYS Core module.</p> <p>A "Named Control" component must be created in QSYS Designer software.</p>
CRESTRON HARDWARE REQUIRED:	Ethernet Card
SETUP OF CRESTRON HARDWARE:	NA
VENDOR FIRMWARE:	Unknown
VENDOR SETUP:	Setup of Qsys Design file, "Named Controls" of desired components for control.



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CONTROL:

Initialize_From_Core	D	Pulse to Initialize control to the QSYS Core component. Should not be driven high until QSYS core has successfully initialized. Usually driven from "Initialize_Control_Modules" signal from respective Core module.
[Auto_Poll]	D	[Optional] Hold high to enable automatic polling of desired component ¹
[Value]	A	[Optional] Value to set the direct level of a component. Values are based on setting in QSYS designer, Example -1000d = -100.0db in QSYS, 100d = 10db in QSYS
[Value_Ramped]	A	[Optional] Value to set the direct level of a component. This value will be Ramped internally in the QSYS system, ramp time is based off of "Ramp Time" Parameter. Values are based on setting in QSYS designer, Example -1000d = -100.0dB in QSYS, 100d = 10dB in QSYS
[Value_Relative]	A	[Optional] Value to set the relative/percentage level of a component. This value will be Ramped internally in the QSYS system, ramp time is based off of "Ramp Time" Parameter. Valid values are 0d = 0% - 65535 = 100%
[Value_Relative_Ramped]	A	[Optional] Value to set the relative/percentage level of a component. Valid values are 0d = 0% - 65535 = 100%
[Volume_Up]	D	[Optional] Hold to ramp up relative level of component. Based off "Ramp Time" parameter
[Volume_Down]	D	[Optional] Hold to ramp down relative level of component. Based off "Ramp Time" parameter

FEEDBACK:

[Value_FB]	A	Value indicating current direct level of QSYS a component. Values to be interpreted as -1000 = -100.0dB, -500 = -50.0dB etc..
[Value_Relative_FB]	D	Value indicating relative level of QSYS component. Valid Range 0d = 0% to 65535 = 100%
[Value_String]	S	String indicating actual QSYS dB value as ASCII characters.

¹ Poll – Adds "Named Control" component to QSYS "Poll group" to be polled automatically within QSYS. This has a default poll time of 100ms.



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PARAMETERS:

Core ID	Dec	Used to Address Core Modules, to Control Modules. This will be the same Core ID given to the Core Module that contains this "Named Control" component.
Named Control	String	String defining the "Named Control" component, defined in QSYS Designer software.
Ramp Time	Seconds	Time used to define Global ramp time of this object. Time is applied to UP/Down signals as well as xxxx_Ramped analog signals.

TESTING:

OPS USED FOR TESTING:	v4.001.1012
SIMPL WINDOWS USED FOR TESTING:	4.04.03
DEVICE DB USED FOR TESTING:	78.05.001.00
CRES DB USED FOR TESTING:	58.05.002.00
SYMBOL LIBRARY USED FOR TESTING:	1010
SAMPLE PROGRAM:	QSYS V3 Demo Program
REVISION HISTORY:	v1.0 – Initial Release