

Partner: Crestron
Model: KNX
Device Type: (Logic)

**GENERAL INFORMATION:**

SIMPLWINDOWS NAME:	"Crestron KNX 2 Byte v3.0"
CATEGORY:	System control
VERSION:	V3.0
SUMMARY:	This macro represents one 2 Byte KNX data type.
GENERAL NOTES:	<p>PLEASE CAREFULLY READ THE KNX GATEWAY MANUAL BEFORE PROGRAMMING.</p> <p>This macro represents one 1 bit KNX data type. The macro is assigned a gateway ID to link it to a KNX IO module. The KNX IO module defines the Gateway type (CGEIB-IP or CI-KNX) that will be used to communicate with the KNX system.</p> <p>A KNX ID is assigned by filling in the parameter field "ID". Depending on the selected Gateway type on the KNX IO module a different format needs to be used.</p> <p>CI-KNX:</p> <p>The CI-KNX uses Object IDs that can be found in ETS in the parameter section for CI-KNX. I.e. if CI-KNX Object ID 1 added to the same group address as the 1 bit object that switches a light then the ID parameter on this module should contain "1".</p> <p>The CI-KNX supports up to 250 data type modules connected to one KNX IO module.</p> <p>CGEIB-IP:</p> <p>The CGEIB-IP uses group address as it is stated in the KNX software. I.e. if your group address is "12/3/255", you copy this exact sequence in the module's "Group Address" parameter. The parameter also allows 2-level group addresses.</p> <p>The CGEIB-IP supports up to 500 data type modules connected to one KNX IO module.</p>
CRESTRON HARDWARE REQUIRED:	3-Series processor
SETUP OF CRESTRON HARDWARE:	<p>The demo program was written for a CP3.</p> <p>The CGEIB-IP is controlled via TCP/IP. Port: 10001.</p> <p>The CI-KNX is controlled via TCP/IP. Port: 12004.</p>
VENDOR FIRMWARE:	CGEIB-IP: V7.03 CI-KNX: N/A
VENDOR SETUP:	CGEIB-(IP)/CI-KNX connected to the KNX bus
CABLE DIAGRAM:	Standard ethernet cable.

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**CONTROL:**

Poll_Value	D	Pulse to retrieve the current state.
Set_Raw_Value	A	Set the raw value for the 2 byte data type.
Set_EIS5_Value	A	Set the value for the 2 byte EIS5 data type. The EIS5 data type is used to send decimal values to the KNX system. I.e. 22.25 is inputted as 2225.
Enable_Signed_EIS5_Value_Input	D	Set high to enable signed input for "Set_EIS5_Value" input.

FEEDBACK:

Initialization_is_Complete	D	High to indicate that the module is ready to be used.
Raw_Value_Analog	A	Analog signal indicating the raw value.
EIS5_Value_Analog	A	Analog signal indicating the EIS5 value. The EIS5 data type is used to receive decimal values from the KNX system. I.e. 22.25 is outputted as 2225.
Absolute_EIS5_Value_Text	S	The absolute value of the EIS5 value.
Decimal_EIS5_Value_Text	S	The decimal value of the EIS5 value.
EIS5_Value_Sign_Fb	D	High to indicate that the EIS5 value is negative.
EIS5_Value_Mantissa_Analog	A	The mantissa for the EIS5 value.
EIS5_Value_Exponent_Analog	A	The exponent for the EIS5 value.
Value_Analog	D	Analog signal indicating the value of the group address

PARAMETERS:

Gateway ID	Num	This ID should match with one of the Gateway IDs defined on the Crestron KNX IO modules in the program.
ID	S	The KNX data type ID. See general notes.

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**TESTING:**

OPS USED FOR TESTING:	CP3: V. 1.500.0013
SIMPL WINDOWS USED FOR TESTING:	V.4.03.20
CRESTRON DB USED FOR TESTING:	V. 53.05.005.00
DEVICE DB USED FOR TESTING:	V. 69.05.001.00
SAMPLE PROGRAM:	"Crestron KNX v3.0 CP3 Demo"
REVISION HISTORY:	V. 3.0