

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



GENERAL INFORMATION:

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| SIMPLWINDOWS NAME: | "Crestron KNX 2 Byte v3.2" |
| CATEGORY: | System control |
| VERSION: | V3.2 |
| 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 2 byte 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:

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| 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:

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| 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:

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| 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: | |
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| OPS USED FOR TESTING: | CP3: V. 1.501.2867.24563 |
| SIMPL WINDOWS USED FOR TESTING: | V.4.07.03 |
| CRESTRON DB USED FOR TESTING: | V. 64.00.001.00 |
| DEVICE DB USED FOR TESTING: | V. 87.05.001.00 |
| SAMPLE PROGRAM: | "Crestron KNX v3.2 CP3 Demo" |
| REVISION HISTORY: | V. 3.1 Fixed communication bug in the IO module. Fixed bug for sending the time of the Crestron system to the KNX system. V. 3.2 Added 3 byte data type module Fixed bug for CI-KNX 4 byte and 6 byte data types Updated logic for recovering the connection after a communication failure. |