Retrieve an AI Scaled Value From an ioLogik E1200 Series Product With Rockwell Software RSLogix 5000

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About Moxa

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things. With over 35 years of industry experience, Moxa has connected more than 111 million devices worldwide and has a distribution and service network that reaches customers in more than 91 countries. Moxa delivers lasting business value by empowering industry with reliable networks and sincere service for industrial communications infrastructures. Information about Moxa's solutions is available at www.moxa.com.

1 Create a Project and Import an EDS file

EDS files for the ioLogik E1200 Series can be downloaded from the following web page:

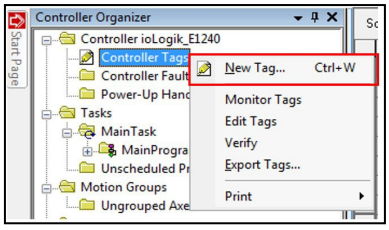
https://www.moxa.com/product/Remote_I_O.htm

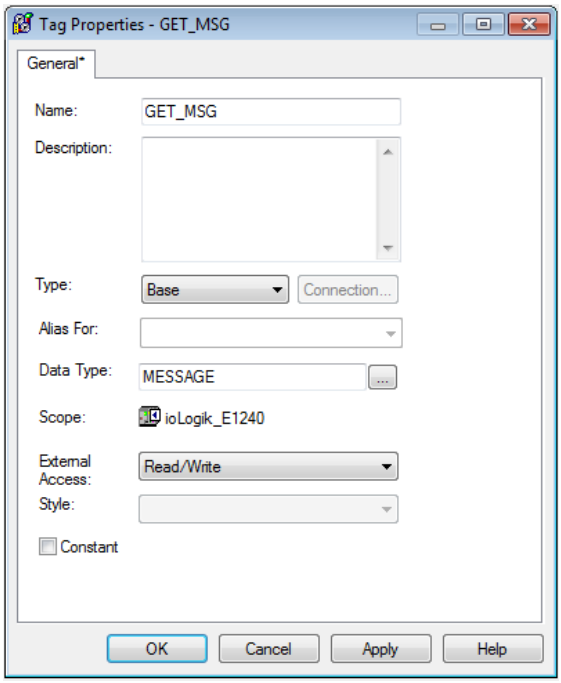
Refer to the user's manuals of the ioLogik E1200 Series for step-by-step instructions on how to create a project and import an EDS file into the RSLogix 5000:

https://www.moxa.com/getmedia/451bb28e-7e07-4bd7-b8e8-260e093ad73b/moxa-iologik-e1200-series-manual-v16.2.pdf

2 Retrieve a Scaled Value from an ioLogik E1200 Series With the RSLogix 5000

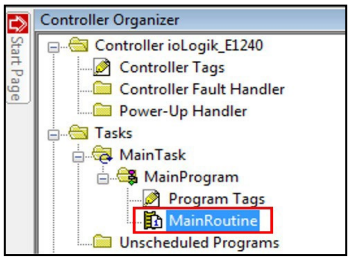
Step 1: Right-select "Controller Tags", create a new tag, and then configure the new tag as in the image shown below. This process described in the following steps creates a MESSAGE type tag for restoring "MSG instruction" information.

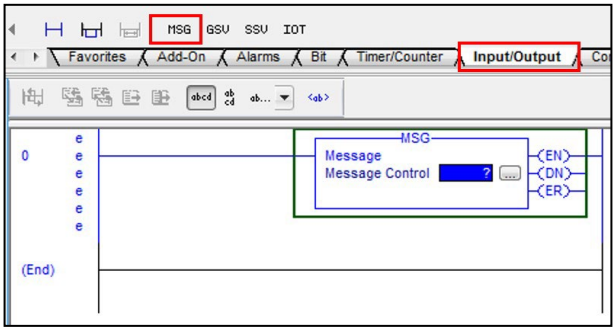




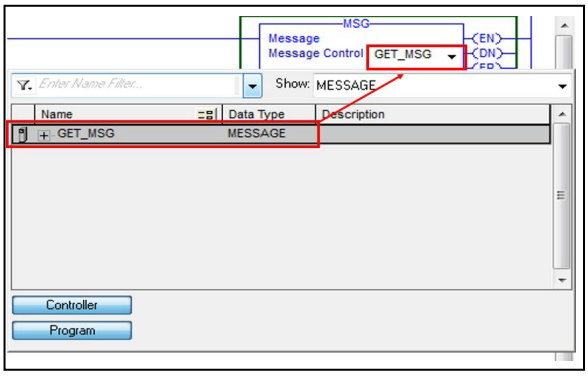
- Name: User-defined name
- Type: Base
- Data Type: MESSAGE (for MSG Instruction)
- External Access: Read/Write

Step 2: Double-select MainRoutine, select the Input/Output label, and then select and add a "MSG instruction".

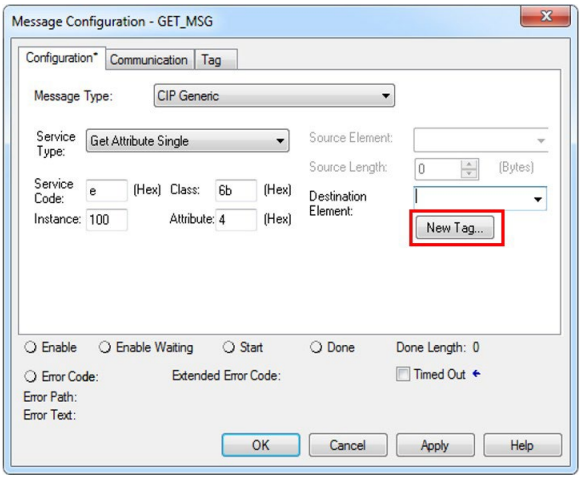




Step 3: Double-select "MSG name" and select the tag created in Step 1.



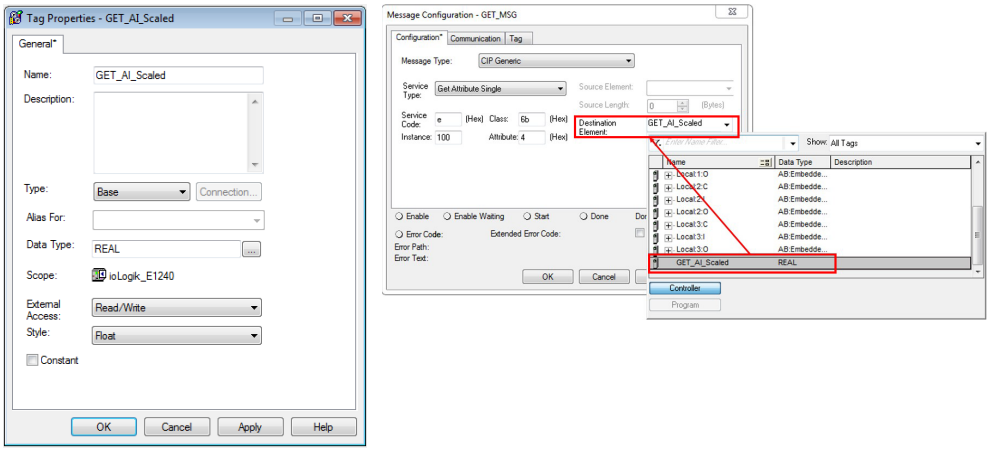
Step 4: Select the "…" button and configure the MSG instruction as shown in the image below, and then select "New Tag" to create a new tag.



- Message Type: CIP Generic
- Service Type: Get Attribute Single
- Service code: e (default after select service type)
- Class: 6b (AI channel object)
- Instance: 100 in decimal format (0X64 in hex)
  - The instance range for an analog input object in the ioLogik E1240 is 0X64 to 0X6B in hex, representing channel 0 to channel 7
  - Needs to be converted to decimal format
- Attribute ID: 4 (ID of scaled value)

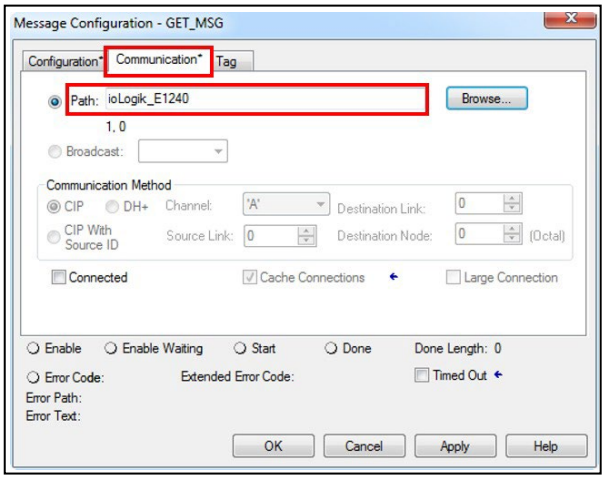
Note A table containing detailed service codes, classes, instances, and attribute IDs can be found in the ioLogik E1200 User's Manual.

Step 5: Configure the tag created in Step 4 as shown in the image below. Set the tag as the "Destination element" to restore the scaled value.



- Name: User-defined name
- Type: Base
- Data Type: REAL
- External Access: Read/Write
- Style: Float

Step 6: Select "Communication" label, browse and set "Path" to an ioLogik E1200 Series device, and then select "Apply".



Step 7: The scaled value restored in the created tag can be found under "Controller Tags".