

Quick Start Guide (RETA-01) Programming Datawords 5 - 12 using RSNetWorx for EtherNet I/P



Overview

Description:

This instruction will provide instructions on how to program Datawords 5 - 12 in the RETA-01 module. Datawords 5-12 are programmed using an explicit message or Class 3 message (Set Single Attribute) within the RETA-01. This document will describe how to use the Class, Instance, Editor tool within the RSNetworx software which will be used to define the Drive I/O Mapping (Class 1 message) for data. The use of this tool is done once at commissioning only. Alternatively, it can also be possible to develop Explicit Message Write blocks (MSG blocks) in the Ladder Logic to write this configuration to the RETA for defining the 5 - 12 Data words In and Out of the drive. Make sure the selected profile supports more then four words.

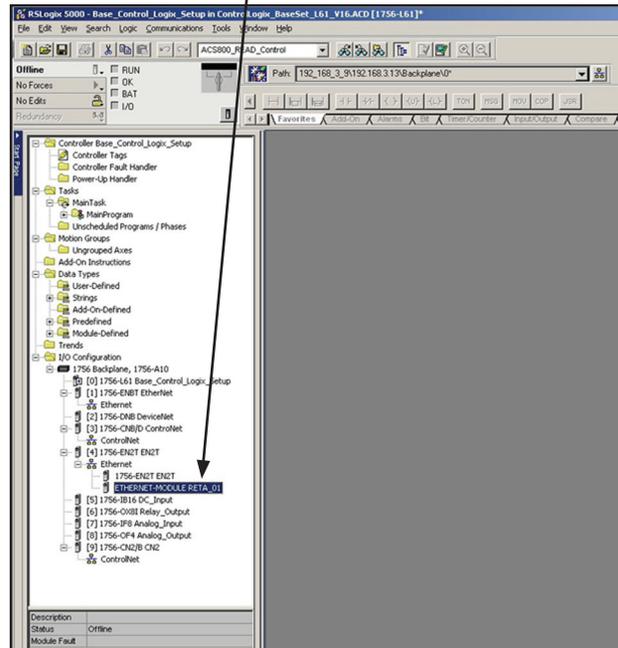
Reference Documentation:

*Users Manual, EtherNet Adapter Module RETA-01
3AFE64539736*

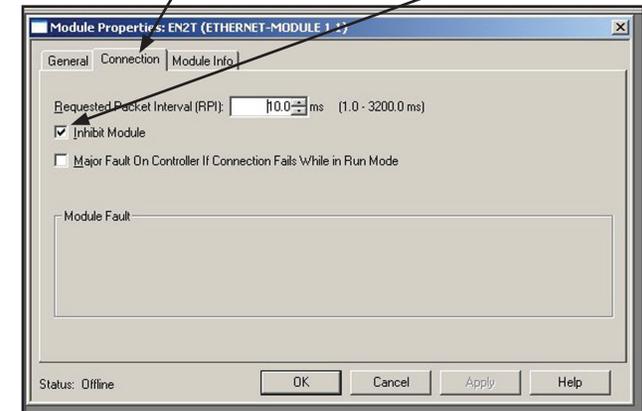
Programming Datawords 5 - 12

This selection will provide instructions on how to program Datawords 5- 12 using the Class Instance Editor within RSNetWorx for EtherNet I/P. This document is written describing the steps to configure Dataword 5 of Input and Output. The use of this instruction should only be done once at commissioning only. Alternatively, it can also be possible to develop Explicit Message Write blocks (MSG blocks) in the Ladder Logic to write this configuration to the RETA for defining the Datawords 5 - 12 In/Out of the drive. This will not be discussed in this document.

1. The I/O connection within the PLC will need to be inhibited while datawords 5 - 12 are programmed using RSNetWorx.
2. Double click on the **RETA-01** within RSLogix 5000 to open the Module Properties window.

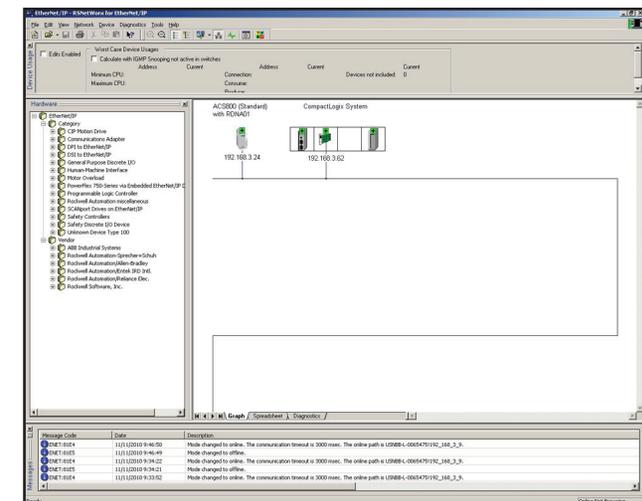


3. Click the **Connection** tab within the Module Properties window and then check the box to **Inhibit Module**

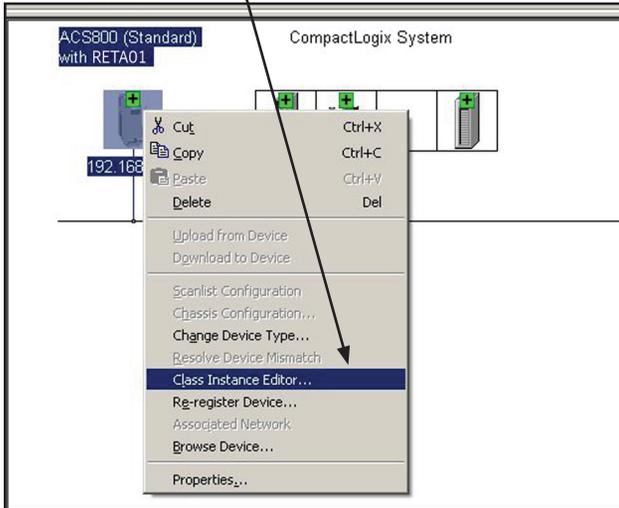


4. Click on the OK button, read warning that opens and then click the OK button.

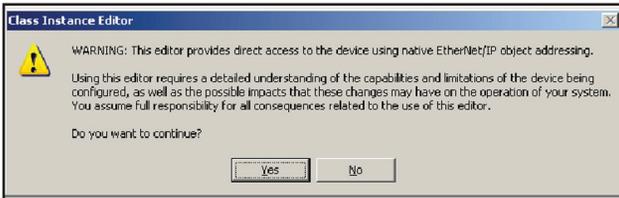
5. Open RSNetWorx for EtherNet I/P and scan EtherNet Network.



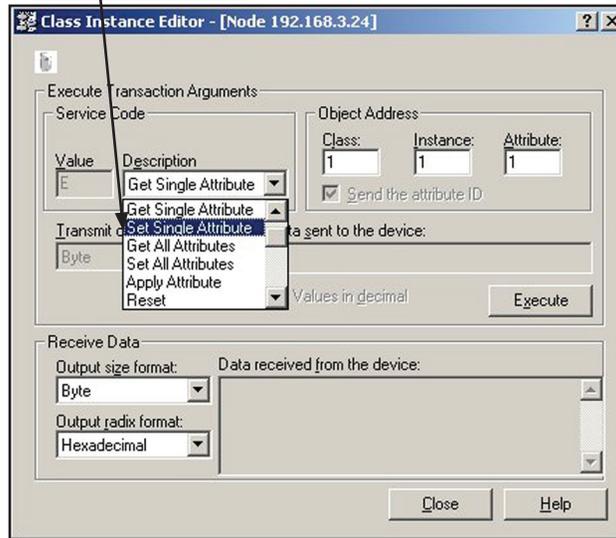
6. Right mouse click on the RETA-01 that will be configured for 5 -12 words.
Then select **Class Instance Editor** from the list.



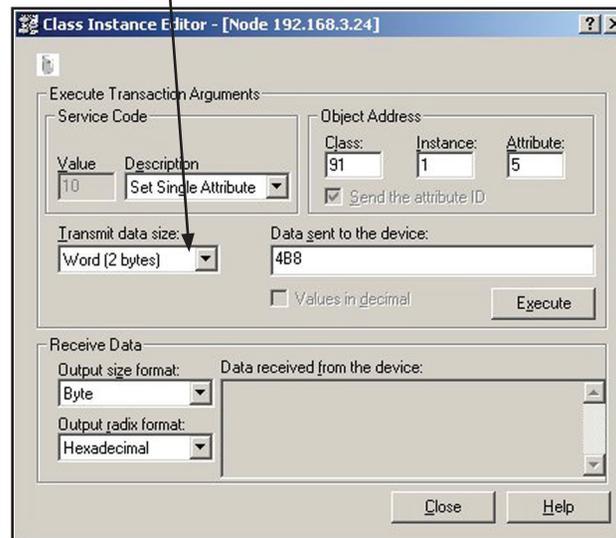
7. Read the following warning message and then click the Yes button.



8. Click the down arrow under Description and select **Set Single Attribute**.

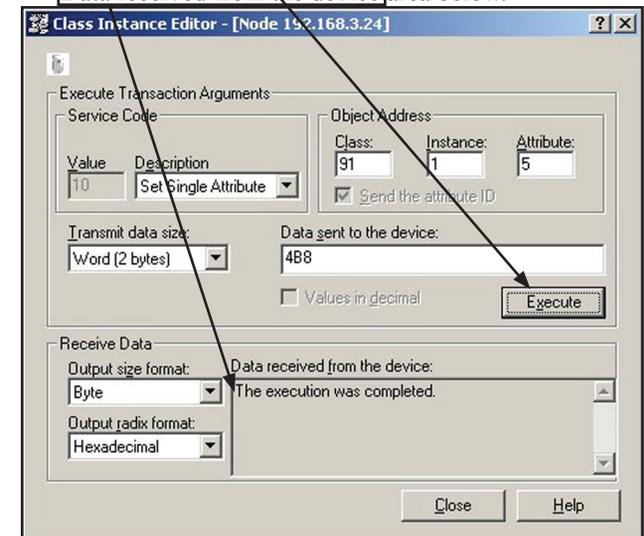


9. Click the down arrow under Transmit data size and select **Word (2 bytes)**.



10. Program the following information below to program Output Datarword 5 to write parameter 12.08 (CONST SPEED 7).

11. Click the **Execute** button to program the Datarword and the following message should be displayed in the **Data received from the device** area below.



12. Program the following information below to program Input Databword 5 to read parameter 1.20 (A11).

13. Click the **Execute** button to program the Databword and the following message should be displayed in the **Data received from device** area below.

14. The power on the drive (RETA-01) will need to be turned off and back on, or a 51.27 (Parameter Refresh) to program the new Databwords in the RETA-01.

How to identify the programmed value of Databwords 5 - 12

This selection will provide instructions on how to find out the programmed parameter value of Databwords 5 - 12 using the Class Instance Editor within RSNetWorx for EtherNet I/P.

1. Open RSNetWorx for EtherNet I/P and scan the EtherNet Network. Then open the Class Instance Editor within RSNetWorx for the RETA that the settings of Databwords 5 - 12 required.

2. Program the following information below. The Description should be set to **Get Single Attribute**

3. Click the **Execute** button to display the programmed parameter number of the Databword.

Adjusting RSLogix 5000 for new programmed Databwords

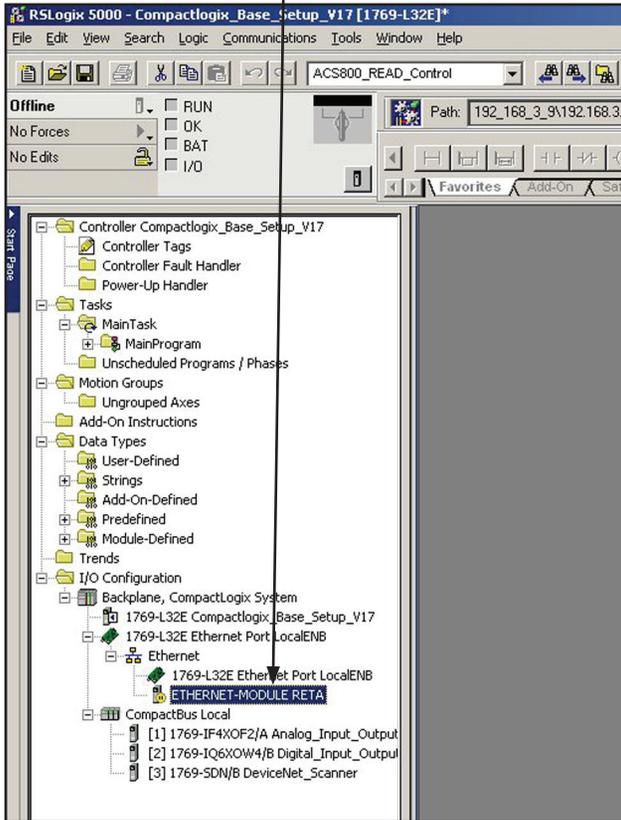
The following instructions will adjust RSLogix 5000 the I/O connection (Class 1 message) to include the new databwords.

1. The I/O connection was inhibited while databwords 5 - 12 were being programmed using RSNetWorx.

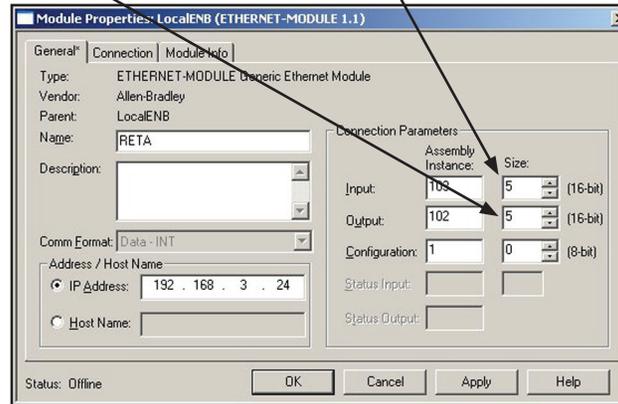
2. The computer will need to be offline with the PLC to make the following changes to the PLC program.

Click **Go Offline**

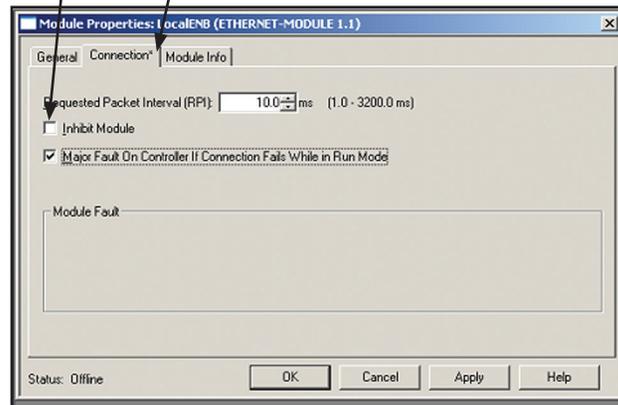
3. Double click on the **RETA-01** within RSLogix 5000 to open the Module Properties window.



4. The Input and Output assembly size will need to be adjusted for the amount of Datawords for the RETA. The example within this instruction Dataword 5 In/Out has been enabled. The new **Input** word size is 5 and the **Output** word size is also 5.



5. Click the **Connection** tab within the Module Properties window and then uncheck the box to remove the **Inhibit Module**.



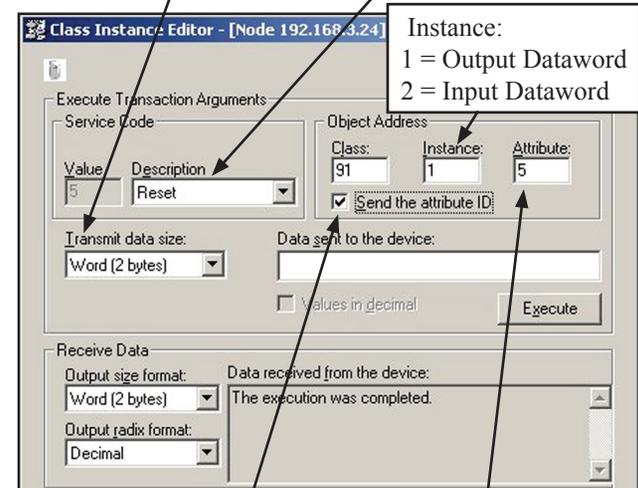
6. Go on-line and download the new PLC program.

Resetting Input and Output Datawords

This section will provide on how to reset all Input and Output Datawords to zero's or off in the RETA-01. The reset function can program "all" Datawords to zero even drive parameters 51.19 - 51.26.

1. Open RSNetWorx for EtherNet I/P and scan EtherNet Network. Then open the Class Instance Editor within RSNetWorx for the RETA that the settings of Datawords 5 - 12 required.

2. Program the following information below. The Description should be set to **Reset**. The **Transmit data size** should be programmed to Word.



If the Send attribute ID is selected only that Dataset will be reset.

Unselecting the Send the attribute ID will reset all Input/Output Datawords even parameters 51.19 - 51.26.

Attribute (Values in Hex):
 5 = Dataword 5
 6 = Dataword 6
 7 = Dataword 7
 8 = Dataword 8
 9 = Dataword 9
 A = Dataword 10
 B = Dataword 11
 C = Dataword 12

3. Click the Execute button to reset the Input or Output Datawords.