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 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.

Reference Documentation:

*Users Manual, EtherNet Adapter Module RETA-01 3AFE64539736*
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 Dataword 5 to write parameter 12.08 (CONST SPEED 7).

    - **Instance:**
      - 1 = Output Dataword
      - 2 = Input Dataword

    - **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

    - The Data set to the device will be in a Hexadecimal format (parameter 1208 decimal converts to 4B8 Hex)

11. Click the **Execute** button to program the Dataword 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 Dataword 5 to read parameter 1.20 (AI1).

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
<td>Dataword 5</td>
</tr>
<tr>
<td>2</td>
<td>6</td>
<td>Dataword 6</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>Dataword 7</td>
</tr>
<tr>
<td>4</td>
<td>8</td>
<td>Dataword 8</td>
</tr>
<tr>
<td>5</td>
<td>9</td>
<td>Dataword 9</td>
</tr>
<tr>
<td>6</td>
<td>A</td>
<td>Dataword 10</td>
</tr>
<tr>
<td>7</td>
<td>B</td>
<td>Dataword 11</td>
</tr>
<tr>
<td>8</td>
<td>C</td>
<td>Dataword 12</td>
</tr>
</tbody>
</table>

How to identify the programmed value of Datawords 5 - 12

This selection will provide instructions on how to find out the programmed parameter value of Datawords 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 Datawords 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 Dataword.

Adjusting RSLogix 5000 for new programmed Datawords

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

1. The I/O connection was inhibited while datawords 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.

13. Click the Execute button to program the Dataword 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 Datawords in the RETA-01.
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.

   | Instance: | Description: | Class: | Instance: | Attribute (Values in Hex):
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Output Dataword</td>
<td>1</td>
<td>1</td>
<td>5 = Dataword 5</td>
</tr>
<tr>
<td>2</td>
<td>Input Dataword</td>
<td>1</td>
<td>2</td>
<td>6 = Dataword 6</td>
</tr>
<tr>
<td>3</td>
<td>Dataword 5</td>
<td>1</td>
<td>3</td>
<td>7 = Dataword 7</td>
</tr>
<tr>
<td>4</td>
<td>Dataword 6</td>
<td>1</td>
<td>4</td>
<td>8 = Dataword 8</td>
</tr>
<tr>
<td>5</td>
<td>Dataword 7</td>
<td>1</td>
<td>5</td>
<td>9 = Dataword 9</td>
</tr>
<tr>
<td>6</td>
<td>Dataword 8</td>
<td>1</td>
<td>6</td>
<td>A = Dataword 10</td>
</tr>
<tr>
<td>7</td>
<td>Dataword 9</td>
<td>1</td>
<td>7</td>
<td>B = Dataword 11</td>
</tr>
<tr>
<td>8</td>
<td>Dataword 10</td>
<td>1</td>
<td>8</td>
<td>C = Dataword 12</td>
</tr>
</tbody>
</table>

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.

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