## Quick Start Guide EtherNet/IP (RETA-01) setting up 5 or more Datawords with RS LOGIX<sup>®</sup> 5000 Software



## Overview

Description:

This instruction will show you how to program Datawords 5 - 12 in the RETA-01 module. The 5<sup>th</sup> Dataword or more are programmed using an explicit message (Class 3 CIP message) write to the RETA-01.

- 1. Program the ACS800 or ACS/ACH550 for 4 Input/Output Datawords using parameter group 51.
- 2. Open RS Logix<sup>®</sup> 5000 and open a RS Logix<sup>®</sup> 5000 program. Right click on the 1769-L32E EtherNet Port LocalENB. Click on New Module.



## 3. Select Module Type: ETHERNET-MODULE.

Select Module Type		X		
	DULE			
Туре	Description			
1788-EN2DN/A 1788 Ethernet to DeviceNet Linking Device 1788-ENBT/A 1788 ID/100 Mbps Ethernet Bridge, Twisted-Pair Media 1788-EWEB/A 1788 ID/100 Mbps Ethernet Bridge w/Enhanced Web Services 1794-KENF/A 1794 1D/100 Mbps Ethernet Adapter, Twisted-Pair Media 1794-AENT/A 1794 1D/100 Mbps Ethernet Adapter, Twisted-Pair Media 1794-AENT/A 1794 1D/100 Mbps Ethernet Adapter, Twisted-Pair Media Drivelogik5730 Ethernet 1D/100 Mbps Ethernet Pot on DriveLogik5730 EtherNet/IP SoftLogik5800 EtherNet/IP ETHERNET-PANELVIEW Ethernet/IP Panelview ETHERNET-PANELVIEW Ethernet/IP Panelview ETHERNET-PANELVIEW Ethernet/IP Panelview				
PowerFlex 700 Vector-41 PowerFlex 700 Vector-61 PowerFlex 700-200V-E PowerFlex 700-400V-E	PowerFlex 700 Vector Drive (400/480V) via 20-COMM-E PowerFlex 700 Vector Drive (600V) via 20-COMM-E PowerFlex 700 Drive (260V240V) via 20-COMM-E PowerFlex 700 Drive (400/480V) via 20-COMM-E	~		
Show Vendor: All V Analog V Digita	Communication     V     Motion     Cogtroller     Clear All			
	OK Cancel Help			

4. Enter the following information.



## 5. Click Finish.

6. Input the following ladder logic program.



 Setup the following information in the message configuration. Instance 1 will set (PLC Output Dataword) and instance 2 will set (PLC Input Dataword). The Source Length will be 2 (bytes).

Message Configuration - Set_Single_Attribu	ıte 🛛 🔀
Configuration <sup>*</sup> Communication Tag	
Message Type: CIP Generic	•
Service Set Attribute Single	Source Element: Message_Value  Source Length: 2  Bestination New Tag
Enable     Enable Waiting     Start     Extended Error Code:	Done Length: 0     Timed Out *
Error Path: Error Text:	Attribute 5 = Dataword 5 Attribute 6 = Dataword 6 Attribute 7 = Dataword 7
Instance 1 = Output Dataword Instance 2 = Input Dataword	Attribute 8 = Dataword 8 Attribute 9 = Dataword 9 Attribute A = Dataword 10 Attribute B = Dataword 11 Attribute C = Dataword 12

8. Under the Communication tab in the message configuration window select the ABB\_RETA\_01. Then click OK.



9. Download the program to the PLC. Then, go online with the PLC and switch PLC to run mode. Check to make sure the PLC is online with the ABB RETA-01



10. Go off line with the PLC.

11. Right click on the ABB\_RETA\_01 and select delete.



- **NOTE!** The RETA-01 must be off line for the setting of Dataword 5 or more. If the RETA-01 is online (class 1 connection) you will be unable to program Dataword 5 or more.
- 12. Download the program to the PLC and go online with the PLC. Switch the PLC to run mode.

Indiana 1999 Commendants Labor Design	a Link Bree		17 Jan 19
in Edit Vew Search Look Comparisations Tools W	ndow Help	(annual_cosecuto(1767-1771)	
Nete International			
Bran      Ban Node     Fraces     Frace	etx [AB_ETHIF   ] [c] ] [c]   [c] ] [c] ] [c]		
Controller CompactLogic_Lob Controller Tags Controller Tags Controller Muk Handler Tags Tasks	B MainPr	og an - MaleRoutine 	
A manufacture     A manuf	0 1 (End)	Long 2 Jon 1	Norm         Norm         A           International public descent public

- 13. Set the tag value (Parameter\_Number) which was created in Step 6 to the drive parameter you want to write. This will program Output Dataword 5 to point to the drive parameter (e.g. 2202).
- 14. Trigger the MSG function (Single\_Attribute\_ Message) that was created in Step 6. This will program Output Dataword 5 to point to Parameter 2202.
- 15. The message should go (EN) enabled and then (DN) done. If the Set\_Single\_Attribute message (ER) errors check the setup.

16. Change the message configuration to write PLC Input Dataword.

Message Configuration - Set_	Single_Attribu	ite		
Configuration* Communication	Tag			
Message Type: CIP Gene	nic	•		
Service Set Afribute Single Type: Service 10 (Hex) Class: Code: Attribut	91 (Hex) e: 5 (Hex)	<u>S</u> ource Element: Source Length: Destination	Message_Val	ue 💌 (Bytes)
Enable Enable Waiting     Error Code: Extend Error Path: Error Text:	Start Jed Error Code:	Done	Done Length: 0 Timed Out 🍝	
	OK	Cancel	Apply	Help

- 17. Change the tag value (Parameter\_Number) which was created in Step 6 to the drive parameter you want to read. This will program Input Dataword 5 to point to the drive parameter (e.g. 104).
- 18. Trigger the MSG function (Single\_Attribute\_ Message) that was created in Step 6. This will program Input Dataword 5 to point to the drive parameter (e.g. 104).



- 19. The message should go (EN) enabled and then (DN)done. If the Set\_Single\_Attribute message (ER) errors check setup.
- 20. The RETA-01 is setup for 5 Input/Output Datawords.
- 21. If more Datawords are needed repeat steps 13 19.