



20-COMM-H RS485 HVAC Adapter Firmware v2.003

This release note describes major revision 2, minor revision 3 of firmware for 20-COMM-H RS485 HVAC adapters.

Introduction

The following information is included in this document:

For information about:	See page:
Enhancements	1
Corrected Anomalies	1
Determining Firmware Revision	2
Firmware Flashing	4
Restrictions	6
Compatible Revisions	6
Rockwell Automation Support	7
Product Satisfaction Return	7

Enhancements

This section describes the enhancements provided in this revision of firmware:

- Adapter Parameters 01 - [DPI Port] through 31 - [RTU Ref Adjust] can now be read or written to directly over Modbus RTU using Modbus addresses 4x0101 through 4x0141 respectively.














Corrected Anomalies

There are no anomalies corrected in this revision of firmware.

Determining Firmware Revision

This section describes procedures to determine the firmware revision of your 20-COMM-H RS485 HVAC adapter.

Using the LCD HIM

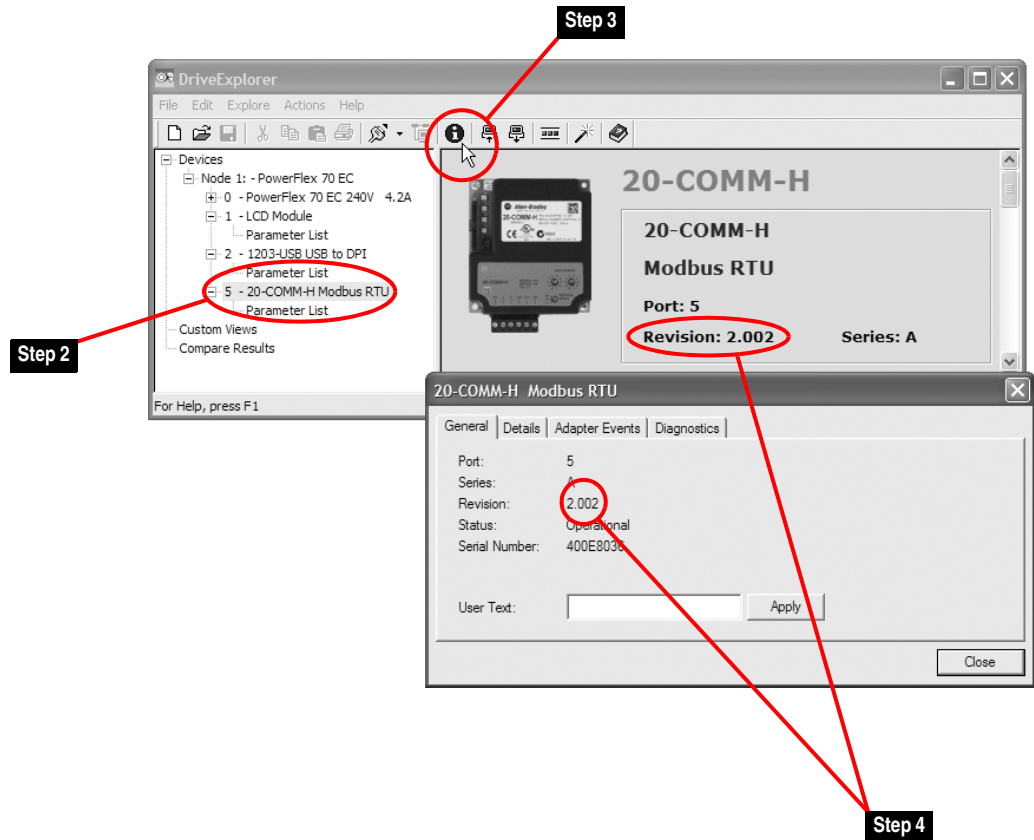
Step	Key(s)	Example Screens																		
1. In the main menu, press the Up Arrow or Down Arrow to scroll to Device Select .	 OR 	<table border="1"> <tr> <td>F-></td> <td>Stopped</td> <td>Auto</td> </tr> <tr> <td></td> <td>0.00</td> <td>Hz</td> </tr> <tr> <td colspan="3">Main Menu:</td> </tr> <tr> <td colspan="3">Diagnostics</td> </tr> <tr> <td colspan="3">Parameter</td> </tr> <tr> <td colspan="3">Device Select</td> </tr> </table>	F->	Stopped	Auto		0.00	Hz	Main Menu:			Diagnostics			Parameter			Device Select		
F->	Stopped	Auto																		
	0.00	Hz																		
Main Menu:																				
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Parameter																				
Device Select																				
2. Press Enter to enter your selection.																				
3. Press the Up Arrow or Down Arrow to scroll to the 20-COMM-H adapter.	 OR 																			
4. Press Enter to select the adapter. The main menu for the adapter will appear.																				
5. Press the Up Arrow or Down Arrow to scroll to Diagnostics .	 OR 																			
6. Press Enter to enter your selection.																				
7. Press the Up Arrow or Down Arrow to scroll to Device Version .	 OR 																			
8. Press Enter to display the Product Data screen.																				
9. Press Enter again to display the adapter's firmware version.																				
		<table border="1"> <tr> <td>Port 5 Device</td> </tr> <tr> <td>20-COMM-H</td> </tr> <tr> <td>Main Menu:</td> </tr> <tr> <td>Diagnostics</td> </tr> <tr> <td>Parameter</td> </tr> <tr> <td>Device Select</td> </tr> </table> <table border="1"> <tr> <td>Port 5 Device</td> </tr> <tr> <td>20-COMM-H</td> </tr> <tr> <td>Diag: Prodct Ver</td> </tr> <tr> <td>FW Ver: 2.002</td> </tr> <tr> <td>Series: B</td> </tr> <tr> <td>Date: 6/07/2007</td> </tr> </table>	Port 5 Device	20-COMM-H	Main Menu:	Diagnostics	Parameter	Device Select	Port 5 Device	20-COMM-H	Diag: Prodct Ver	FW Ver: 2.002	Series: B	Date: 6/07/2007						
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Using DriveExplorer Lite/Full

1. Launch DriveExplorer and go online (via 1203-USB or 1203-SSS converter) with the drive that is connected to the adapter.
2. In the DriveExplorer treeview, click on the 20-COMM-H adapter as shown in [Figure 1](#).
3. Click the information icon to display the adapter's Properties screen.
4. The "Revision:" field shows the present revision (for example, 2.002) of the adapter firmware.

► **TIP:** When clicking on the 20-COMM-H adapter using version 5.01 or higher DriveExplorer Lite/Full, the adapter firmware revision is also shown in the right pane of the DriveExplorer window.

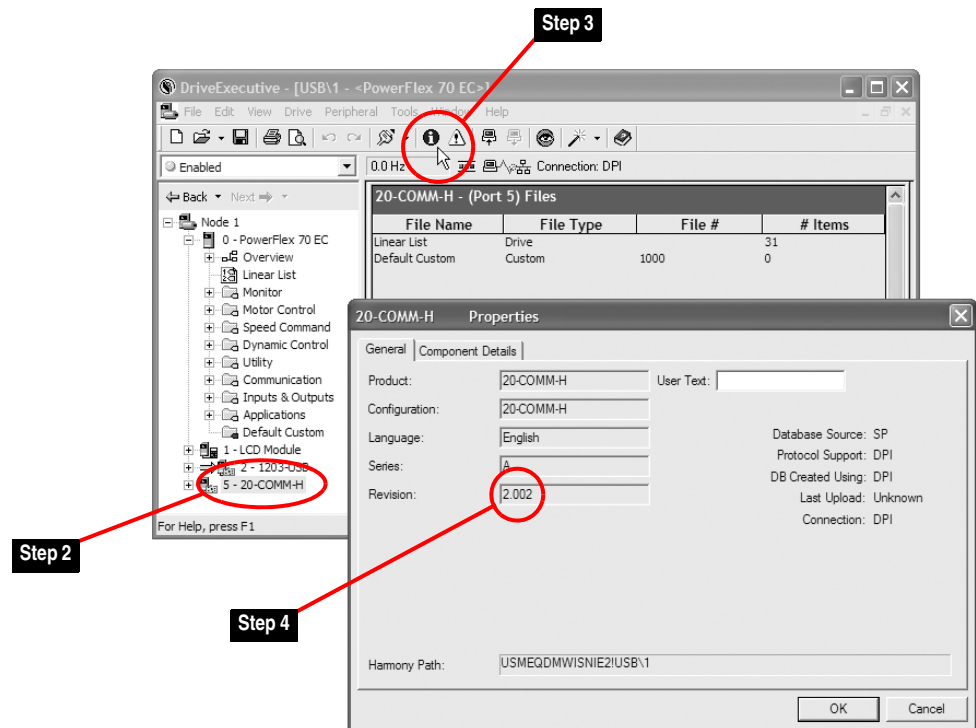
Figure 1 Information Icon in DriveExplorer Window



Using DriveExecutive

1. Launch DriveExecutive and go online with the drive that is connected to the adapter.
2. In the DriveExecutive treeview, click on the 20-COMM-H adapter as shown in [Figure 2](#).
3. Click the information icon to display the adapter's Properties screen.
4. The "Revision:" field shows the present revision (for example, 2.002) of the adapter firmware.

Figure 2 Information Icon in DriveExecutive Window



Firmware Flashing

This section describes procedures to flash upgrade your adapter firmware. Flash kits for drives and communications adapters are provided on the Allen-Bradley Web Updates site located at <http://www.ab.com/support/abdrives/webupdate>.



ATTENTION: Risk of permanent equipment damage exists. Once a flash update has been started, do not remove power from the drive until after the download has completed and the MOD status indicator on the adapter becomes FLASHING GREEN. If power is removed before this occurs, the adapter may be permanently damaged. An adapter that has been damaged in this way cannot be repaired.

Installing the Flash Kit

1. Install the flash kit utility from the Allen-Bradley Web Updates site for the 20-COMM-H adapter. (This also automatically installs the latest version of the ControlFLASH utility on your computer.)
2. You are now ready to use DriveExplorer, DriveExecutive or ControlFLASH to update the adapter. Follow the instructions in the appropriate section below.

Using DriveExplorer Lite/Full

1. With the Flash Kit installed (see [Installing the Flash Kit](#)), launch DriveExplorer and go online (via a 1203-USB or 1203-SSS converter) with the drive that is connected to the adapter.
2. In the DriveExplorer treeview, click on the 20-COMM-H adapter. Then click the information icon as shown in [Figure 1](#) to display the adapter's Properties screen.
3. On the 20-COMM-H Properties screen, click the Details tab.

Important: This update may cause the adapter parameters to revert to their default values. You may want to save your configuration using DriveExplorer or the HIM CopyCat feature before upgrading.

4. To start the flash update, click the **Flash Update...** button. Follow the screen prompts until the flash update procedure completes and displays the new firmware revision (v2.003).

Using DriveExecutive

1. With the Flash Kit installed (see [Installing the Flash Kit](#)), launch DriveExecutive and go online with the drive that is connected to the adapter.
2. In the DriveExecutive treeview, click on the 20-COMM-H adapter. Then click the information icon as shown in [Figure 2](#) to display the adapter's Properties screen.
3. On the 20-COMM-H Properties screen, click the Component Details tab.

Important: This update may cause the adapter parameters to revert to their default values. You may want to save your configuration using DriveExecutive or the HIM CopyCat feature before upgrading.

4. To start the flash update, click the **Flash Update** button. Follow the screen prompts until the flash update procedure completes and displays the new firmware revision (v2.003).

Using ControlFLASH

1. With the Flash Kit installed (see [Installing the Flash Kit on page 5](#)), launch ControlFLASH by selecting **Start > (All) Programs > Flash Programming Tools > ControlFLASH**.
2. Choose the 20-COMM-H v2.003 update from the list of available updates.

Important: This update may cause the adapter parameters to revert to their default values. You may want to save your configuration using the HIM CopyCat feature, DriveExplorer or DriveExecutive before upgrading.

3. Follow the screen prompts until the flash procedure completes and displays the new firmware revision (v2.003).

Restrictions

No restrictions apply to this revision of firmware.

Compatible Revisions

To use this revision of firmware, update your system tools as follows:

Update this:	To this version or later:
DriveExplorer Lite/Full	4.01
DriveExecutive	3.01
PowerFlex 7-Class Drive	all versions compatible
LCD HIM	all versions compatible
RSLinx Classic	2.43

Rockwell Automation Support

Rockwell Automation provides technical information on the web to assist you in using our products. At <http://support.rockwellautomation.com>, you can find technical manuals, a knowledge base of Frequently Asked Questions (FAQs), technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

Rockwell Automation also provides complimentary phone support for drives, communication adapters, and peripherals. If you experience a problem with the adapter, please review the information in its User Manual. For further help in getting your adapter operational, contact a Customer Support representative:

United States	(1) 262.512.8176 Monday – Friday, 7am – 6pm CST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

For an additional level of technical phone support for installation, configuration and troubleshooting, we offer TechConnect Support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://support.rockwellautomation.com>.

Product Satisfaction Return

Rockwell Automation tests all products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned:

United States	Contact your distributor. You must provide a Customer Support case number (see phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for return procedure.

U.S. Allen-Bradley Drives Technical Support - Tel: (1) 262.512.8176, Fax: (1) 262.512.2222, Email: support@drives.ra.rockwell.com, Online: www.ab.com/support/abdrives

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