

Release Notes

PowerFlex® Digital DC Drive Firmware v4.002

These release notes correspond to major revision (4), minor revision (2) of firmware for the PowerFlex® Digital DC drive.

Introduction

The following information is included in this document:

For information about...	See page...
Determining the Firmware Revision Level	Below
Firmware Upgrades	2
Corrected Anomalies	3
Rockwell Automation Support	4
Installation Assistance	4
New Product Satisfaction Return	4

Determining the Firmware Revision Level

To determine the firmware version for a PowerFlex DC, view parameter 331 [Software Version].

The firmware build number is not associated with a parameter number.

To determine the firmware build number using the HIM:

- From the Main menu, select Diagnostics > Device Version.
View the build number under “Main Control Bd Application Code”.

To determine the firmware build number using DriveExplorer™:

- Select Explore > Device Properties.
In the Device Properties dialog box, click on the Details tab and view the build number under Main Control Bd Application Code > Revision.

Example:

Firmware Version: 4,002,05
 Major Revision ————
 Minor Revision ————
 Build Number ————

4.002 = Firmware revision as displayed in parameter 331 [Software Version]
 4.002.05 = HIM or DriveExplorer dialog box

Firmware Upgrades

Important: Once a flash update has been started, do not remove power from the drive until after the download has completed and the Drive has reset. If power is removed during Boot Flash, the drive may be permanently damaged. A drive that has been damaged in this way cannot be repaired. If power is removed during Application Flash, the drive will remain in Boot and can be re-flashed.

Note: When you upgrade to a major firmware revision (3.xxx to 4.xxx), after the drive has been programmed and rebooted an “EEPROM Error” fault (F100) will occur. This is due to the additional memory storage requirements for the new parameters in the firmware. You can clear the fault and continue.

HyperTerminal Update Instructions:

Firmware 1.006.05 or later:

Use HyperTerminal to load the following file:

1. PFDC_MC_4_002_05_AppES.bin

Note: The above file contains English and Spanish only.

ControlFLASH Update Instructions:

ControlFLASH updates are only possible using the following:

- AnaCANda, v3.004.01 or later
- DeviceNet, v1.006.02 or later
- ControlNet, v1.001.01 or later
- EtherNet, v1.001.01 or later

Firmware 1.006.05 or later:

1. Install ControlFLASH file ControlFLASH_PFDC_v4002b05ES.msi
2. Run ControlFLASH

Note: The above file contains English and Spanish only.

Corrected Anomalies

This section describes the anomalies corrected in this revision:

Parameter Default Values

The default value of parameter 87 [SpdReg Kp] was lowered to 3.00%. The default value of parameter 88 [SpdReg Ki] was lowered to 0.30%. The default value of parameter 126 [Spd Zero P Gain] was lowered to 3.00%.

SAR Mode (Only) Parameter Download

Downloading a previously uploaded parameter set (via HIM or DriveExplorer/DriveExecutive) would result in a configuration code warning. Also, parameter 179 [Nom Mtr Arm Amps] value would not be retained after a download if it was set to a value different than parameter 465 [Drive Size].

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 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.

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>.

Installation Assistance

If you experience a problem with a hardware module within the first 24 hours of installation, please review the information that's contained in this document. You can also contact a special Customer Support number for initial help in getting your module up and running:

United States	1.440.646.3434 Monday – Friday, 8am – 5pm EST
Outside United States	Please contact your local Rockwell Automation representative for any technical support issues.

New Product Satisfaction Return

Rockwell tests all of our 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 in order 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

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846