Nordson Configuration Manager
For ProBlue®, ProBlue Fulfill®, ProBlue Liberty™ Melters
User’s Guide

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Overview

This user's guide describes how to install and use the Nordson Configuration Manager (NCM) communication utility for ProBlue® Adhesive Melters.

Melters Supported

The NCM utility currently supports the following melters:

- ProBlue® Adhesive Melters
- ProBlue® Fulfill® Melters
- ProBlue Liberty™ Melters

Program Download

The NCM program can be downloaded from http://emanuals.nordson.com/adhesives/software/BlueSeriesSoftware.html

System Requirements

Make sure that the following tools are available:

- Serial cable or USB cable (depending on the equipment being used)
- Personal Computer with:
  - Serial port or USB port
  - Windows XP, 2000, or Windows 7
NCM Dialog Box

Nordson Configuration Manager (NCM) is launched from your Windows desktop using the icon shown to the left.

1. Select Device button
2. Connect button
3. Device Status area
4. About NCM
5. Help
6. Exit
7. Upgrade button
Dialog Box Features

<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select Device</td>
<td>Allows you to select a device from the given list.</td>
</tr>
<tr>
<td>Connect</td>
<td>Allows you to select a communication port (COM 1 - 4) to connect the device to the PC.</td>
</tr>
<tr>
<td>DEVICE STATUS</td>
<td>Indicates the communications status.</td>
</tr>
<tr>
<td>Exit</td>
<td>Closes the NCM.</td>
</tr>
<tr>
<td>Upgrade</td>
<td>Upgrades or reloads the firmware.</td>
</tr>
</tbody>
</table>

Installation

When you download and install the NCM program, the latest version of the firmware is downloaded in your PC's hard drive.

The following section describes how to download the NCM program, connect the melter to a PC, and operate the program.

**Download the NCM**

2. Click on NCM_PBlue3004.zip and download the install file.
Download the NCM (contd)

3. Navigate to the downloaded file NCM_PBlue3004.zip.
4. Extract NCM_PBlue3004.exe and run it.
5. In the Install Wizard, accept all the default settings by pressing the Next button.

The screens will appear in the following sequence:

a. Note the folder location of NCM
6. Press the Install button to finish the installation (see screen d).
Connect the Melter to a PC

1. Connect a serial cable between the PC COM port (selected during the program installation routine) and the serial port connection (COM port) on your melter's control panel (see following drawing).

![ProBlue serial port]

**NOTE:** If the PC does not have a serial port, a USB-to-serial port adaptor must be used. When installing the USB-to-serial port adaptor, follow the manufacturer’s instructions. If given a choice as to which port to associate with the adaptor, use serial ports 1, 2, 3, or 4.

2. Make sure that the melter and the PC’s monitor are turned on.
3. Locate the NCM folder in your PC hard drive.
4. Double-click the NCM icon to open the program.
   The NCM dialog box appears.
5. Go to *Operation* given next.
Operation

The following section describes how to use the NCM functionalities. Refer to the *NCM Dialog Box* and *Dialog Box Features* for the location of the setup buttons.

*Intended Use*

Use the NCM utility to upgrade or restore melter firmware.

*Before Upgrading/Restoring Melter Firmware*

**NOTE:** Future versions of NCM will automate this process, but these versions are not yet available.

Manually record all melter settings, including melter temperature set points and system parameters, prior to software upgrade. See *Setting Up the Melter* section of [http://emanuals.nordson.com/adhesives/English_Manuals/1123388.pdf](http://emanuals.nordson.com/adhesives/English_Manuals/1123388.pdf) for more information. This step is important because you must manually restore these settings later.
Upgrade or Restore Melter Firmware

Use the NCM utility to upgrade your melter to a newer version of firmware or reload the current version of the firmware.

Upgrading Firmware

1. Turn off the melter power.
2. Press and hold the Setup (a) and the left display Scroll (b) keys, and turn the melter back on. Hold the keys until UPLOAD appears in the right display (c).
3. Double-click the NCM icon.
   The NCM dialog box appears.
4. Click Select Device.
   The Select Product dialog appears.
5. Select your melter from the list, and then click OK.
   The Select COM Port dialog appears.
6. Select the COM port you are using to connect to the melter, and then click OK.
   The PC and melter establish communications. The DEVICE STATUS area displays the picture of the selected melter and indicates CONNECTED.
7. Click Upgrade.
   The Select Upgrade dialog appears.
8. In the *Available Upgrades* list, select the firmware version you want to upload to the melter, and then click OK.

The upgrade warning message appears.

9. Click OK.

The UPGRADE IN PROGRESS dialog appears. The upgrade can take as long as 8 minutes. When the upgrade is complete, the SUCCESS dialog box appears and the melter restarts.

**CAUTION!** Once the upgrade progress bar appears, do not interrupt the upgrade process for any reason. Interrupting the upgrade can corrupt the melter's firmware, which will require replacement of the CPU board. For CPU replacement board numbers, refer to the table below.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1123450</td>
<td>SERVICE KIT, CPU, LIBERTY</td>
</tr>
<tr>
<td>1101718</td>
<td>KIT, SERVICE, FULFILL, CPU</td>
</tr>
<tr>
<td>1028325</td>
<td>KIT, SERVICE, CPU BOARD</td>
</tr>
</tbody>
</table>

10. Click OK.

The communications link between the melter and the PC is terminated.

11. Click Exit to terminate the NCM application.
After Upgrading/Restoring Melter Firmware

**NOTE:** Future versions of NCM will automate this process, but these versions are not yet available.

1. Turn off the melter power.

2. Press and hold the Standby (a) and Hose (b) keys, and turn the melter back on. Hold the keys until the firmware version is displayed in the right display (c). This action clears all special modes that might otherwise impact melter operation.

3. Turn off the melter power.

4. Press and hold the Settings Down (d) and Setup (e) keys, and turn the melter back on. Hold the keys until the firmware version is displayed in the right display (c). This action resets all settings to their default factory values.

**NOTE:** In newer melter firmware versions (2.063 and newer), rSEt is displayed briefly following the firmware version as an indicator that you have successfully completed the factory reset process.

5. Re-instate all melter settings you saved prior to firmware upgrade/restore.

6. Re-instate all special modes as required.

**NOTE:** If the melter is a ProBlue or a ProBlue Fulfill melter, no further action is necessary. For Liberty melters (firmware 2.111 and newer), perform the following additional steps:

   a. Turn off the melter power.

   b. Press and hold the Settings Down (d) and Pump (f) keys, and turn the melter back on.

   c. Hold the keys until the firmware version is displayed in the right display (c). **Lib** is displayed briefly following the firmware version as an indicator that you have enabled **Liberty mode** operation.