PA 800 Plus Empower™ Driver

Release Notes

RUO-IDV-03-9720-A
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(GEN-IDV-09-10816-B)

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This guide provides information about, and procedures for, installing the PA 800 Plus Empower™ Driver. The PA 800 Plus Empower™ Driver enables data acquisition from a PA 800 Plus Pharmaceutical Analysis System using the Waters Empower™ 3 (FR4) Software. The PA 800 Plus Empower™ Driver must be installed on the same computer as the Empower™ Software.
Requirements

Operating System Requirements

This version of the software is compatible with Microsoft Windows 10, 64-bit. For computer requirements, refer to Computer Requirements.

Computer Requirements

The computer must meet the minimum requirements for Microsoft Windows 10, 64-bit and the Empower™ 3 (FR4) Software. For more details, refer to the documentation supplied by Waters. A free USB port is also required.

Validated Controller Configuration

Table 2-1 Validated Controller Configuration

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Microsoft Windows 10 Enterprise 2016 LTSB</td>
</tr>
<tr>
<td>Additional Software</td>
<td>• Oracle client version 12.1.0.2.0 for 32-bit</td>
</tr>
<tr>
<td></td>
<td>• Empower™ Software</td>
</tr>
<tr>
<td></td>
<td>• National Instruments Driver, version 19</td>
</tr>
<tr>
<td>CPU</td>
<td>Minimum: CPU for Windows 7 or 10 Intel 2 Duo, E6400 2.13 GHz</td>
</tr>
<tr>
<td></td>
<td>Recommended: Intel Core 2 Duo, E8400 3.0 GHz</td>
</tr>
<tr>
<td>Random access memory (RAM)</td>
<td>Minimum: 4 GB  Recommended: 8 GB</td>
</tr>
<tr>
<td>Hard drive</td>
<td>Minimum 25 GB</td>
</tr>
<tr>
<td>Free disk space</td>
<td>2 GB for Empower™ Software</td>
</tr>
</tbody>
</table>
Requirements

Table 2-1 Validated Controller Configuration (continued)

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor</td>
<td><strong>Minimum</strong>: 1024 x 768 resolution (except for LAC/E modules)</td>
</tr>
<tr>
<td></td>
<td><strong>Recommended</strong>: 1920 x 1080 resolution for client</td>
</tr>
<tr>
<td>Optional control interfaces</td>
<td>8-port serial hub</td>
</tr>
<tr>
<td>Ethernet adapters</td>
<td>1 Ethernet adapter for network connectivity</td>
</tr>
<tr>
<td></td>
<td><strong>Minimum</strong>: Greater than 100 Mbps</td>
</tr>
<tr>
<td></td>
<td><strong>Recommended</strong>: 1 Gbps</td>
</tr>
</tbody>
</table>

**Required Software**

Waters Empower™ 3 Software must be installed. The PA 800 Plus Empower™ Driver was validated with the Empower™ 3 (FR4) Software.

During Early Access Customer Evaluation, customers evaluated the PA 800 Plus Empower™ Driver and found it to be fully compatible with Empower™ 3 (FR2) Software or higher.
Check for Previously Installed Drivers

1. Determine whether the Beckman Coulter PACE MDQ Control for Waters Empower driver is installed.
   a. Click Control Panel > Programs and Features.
   b. Look for Beckman Coulter PACE MDQ Control for Waters Empower software.
      If it is present, uninstall it. Refer to Uninstall the Beckman Coulter PACE MDQ Control for Waters Empower Software Driver.

2. Determine whether the correct version of the National Instruments Software driver is installed.

   **Note:** The PA 800 Plus Empower™ Driver requires National Instruments Software driver version 19.0. If another version is installed, then it must be removed.

   a. Click Control Panel > Programs and Features.
   b. Look for National Instruments Software.
      If the version number is not 19.0 (or no version number is shown), then uninstall it. Refer to Uninstall Previous Versions of the National Instruments Software Driver.

Uninstall the Beckman Coulter PACE MDQ Control for Waters Empower Software Driver

1. Close any Empower™ Software programs that are open.
2. Click Control Panel > Programs and Features.
3. Click Beckman Coulter PACE MDQ Control for Waters Empower software and then click Uninstall/Change.
   The InstallShield Wizard window opens.
4. Click Remove and then click Next.
5. In the message that opens, click **Yes** to remove all features.

6. When the uninstallation is done, click **Finish** to close the InstallShield Wizard window.

7. In the Program and Features control panel, right-click, select **Refresh**, and then make sure that **Beckman Coulter PACE MDQ Control for Waters Empower software** is gone.

   If the driver is still shown in the control panel, then repeat the procedure to uninstall the driver.

### Uninstall Previous Versions of the National Instruments Software Driver

**Note:** The PA 800 Plus Empower™ Driver requires National Instruments Software driver version 19.0. If another version is installed, then it must be removed.

1. Click **Control Panel > Programs and Features.**
2. Click **National Instruments Software** and then click **Uninstall/Change**.
   The National Instruments Software window opens.

3. Depending on the version of the driver that is installed, do one of the following:
   - Hold **Ctrl-Shift**, press the down arrow to select all of the items in the list and then click **Remove**.

   **Figure 3-2 National Instruments Software Uninstall Dialog**

   ![National Instruments Software Uninstall Dialog](image1)

   • Click **Remove All**.

   **Figure 3-3 National Instruments Software Uninstall Dialog**

   ![National Instruments Software Uninstall Dialog](image2)

4. When the uninstallation is done, click **Yes** to restart the computer.
5. After the computer restarts, log on.
Installation Instructions

Install the PA 800 Plus Empower™ Driver

1. Insert the PA 800 Plus Empower™ Driver DVD in the DVD drive.
2. Navigate to the PA 800 Plus Empower Driver V1.3.0 folder and then double-click setup.exe. The Open File - Security Warning dialog opens.
3. Click Run.
   The PA 800 Plus Empower™ Driver InstallShield Wizard opens.

   Figure 3-4 Sciex PA 800 Plus Empower™ Driver InstallShield Wizard

4. In the License Agreement page, click I accept the terms of the license agreement and then click Next.
5. Follow the on-screen instructions to install the software. When prompted, accept the default values. If warnings are shown at the beginning of the installation, then ignore them.

Install the National Instruments Software Driver

The PA 800 Plus Empower™ Driver requires the National Instruments Software Driver version 19.0.
1. On the PA 800 Plus Empower™ Driver Installation DVD, navigate to the NI-488.2 19.0 Driver folder and then double-click **Install.exe**.

   The Open File - Security Warning dialog opens.

2. Click **Run**.

   The installer checks for license agreements and then opens the following page.

   **Figure 3-5 NI Package Manager Installation Wizard**

   ![NI Package Manager Installation Wizard](image)

   - **Select**
   - **Agree**
   - **Review**
   - **Perform**

   **You must accept the license agreements below to proceed.**

   **NATIONAL INSTRUMENTS SOFTWARE LICENSE AGREEMENT**

   CAREFULLY READ THIS SOFTWARE LICENSE AGREEMENT ("AGREEMENT"). BY DOWNLOADING THE SOFTWARE AND/OR CLICKING THE APPLICABLE BUTTON TO COMPLETE THE INSTALLATION PROCESS, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT WISH TO BECOME A PARTY TO THIS AGREEMENT AND BE BOUND BY ITS TERMS AND CONDITIONS, DO NOT INSTALL OR USE THE SOFTWARE, AND RETURN THE SOFTWARE (WITH ALL ACCOMPANYING WRITTEN MATERIALS AND THEIR CONTAINERS) WITHIN THIRTY (30) DAYS OF RECEIPT. ALL RETURNS TO NI WILL BE SUBJECT TO NI'S THEN-CURRENT RETURN POLICY. If you are accepting these terms on behalf of an entity, you agree that you have authority to bind the entity to these terms.

   The terms of this Agreement apply to the computer software provided with this Agreement, all updates or upgrades to the software that may be provided later by NI as part of any maintenance, technical support, or service agreements. This license agreement applies to the following packages: NI Update Service, LabVIEW Runtime (32-bit)

   - [ ] I accept the above 2 license agreements.
   - [ ] I do not accept all the license agreements.

   ![License Agreement](image)

3. Click **I accept the above 2 license agreements.** and then click **Next** until the NI Package Manager page opens.

4. In the **Additional items you may wish to install** list, click **NI-488.2 .NET Language Runtime 17.0.1 for .NET Framework 4.5** and then click **Next**.
CAUTION: Potential Communication Error. Make sure that NI-488.2 .NET Language Runtime 17.0.1 for .NET Framework 4.5 component is selected before clicking OK. If the component is not installed, then the LAC/E module and the PA 800 Plus System will not be able to communicate.

**Note:** By default, other components are selected in this list. They are also required and should remain selected.

**Figure 3-6 Required .NET Components**

5. In the Agree page, click **I accept the above 2 license agreements.** and then click **Next.**
6. In the next page, click **I accept the above 2 license agreements.** and then click **Next.**

The installation can take a few minutes.

When the installation is done, a message about the NI Update Service is shown.
7. Click No.

8. If installer shows a message about the NI Customer Experience Improvement Program, then click No, I do not want to participate in the NI Customer Experience Improvement Program and then click OK.

9. Click Reboot Now to restart the computer.

10. Log on to the computer.

**Note:** If a dialog asking to register the software opens, click Cancel to dismiss it.
Configure the Empower™ Software

Use the following procedures to configure the Empower™ Software to work with the PA 800 Plus System.

Change the Pressure Units

The Empower™ Software can display pressure in units of psi or millibar. By default, the units are millibar.

Use the following procedure to change the units.

1. Log on to the computer as a user with administrator privileges.
2. Close the Empower™ Software.
3. Open the Registry Editor window.
   a. Click Start, type R, and then click Run.
      The Run dialog opens.
   b. Type regedit.
   c. Click Yes in the message that appears.
      The Registry Editor window opens.
4. Locate the registry entry for the pressure units.
   a. Click Edit > Find.
   b. (Optional) Click the HK_LOCAL_MACHINE folder in the tree structure.

Tip! The search for the entry is much faster when HK_LOCAL_MACHINE is selected.
c. In the **Find what**: field, type **PressureUnitPSI** and then click **Find Next**.

**Figure 4-1 Find Dialog**

The search can take some time. When the key is found, it will be highlighted in the right pane of the Registry Editor window.

**Figure 4-2 Registry Editor**

5. Edit the registry entry.
Configure the Empower™ Software

a. Double-click **PressureUnitPSI**.
   The Edit DWORD (32-bit) Value dialog opens.

   ![Figure 4-3 Edit DWORD (32-bit) Value Dialog]

b. In the **Value data** field type the value for the units and then click **OK**.
   - 1 for psi
   - 0 for mbar

c. Click **File > Exit** to save the changes and close the Registry Editor window.

---

Configure the Acquisition Server

**Note:** Set up the acquisition server in the Empower™ 3 (FR4) Software before completing the following procedure. For instructions refer to the manufacturer’s documentation that came with the software.

1. Double-click the **Empower** icon on the desktop and log on as a user with administrative privileges.
2. In the Empower™ Software Start dialog, click **Configure the System**.
Configure the Empower™ Software

Figure 4-4 Empower™ Software Start Dialog

The Configuration Manager window opens.

Note: The list of nodes in the following figure will reflect the local Empower™ Software configuration.
Configure the Empower™ Software

Figure 4-5 Configuration Manager Window

3. In the table, right-click the node to be configured and select Properties.
4. Click the **Configure DHCP** tab and then click **Configure DHCP**.
Figure 4-7 Configure DHCP Tab

The Waters DHCP Server Configuration dialog opens.
Figure 4-8 Waters DHCP Server Configuration Dialog

5. If the Beckman Coulter PACE MDQ Control for Waters Empower Software Driver was previously installed, then delete any existing CE instruments in the list. Click BCPACEMDQ in the dialog and then click Remove.

6. Click Add.

   The Add IP Address dialog opens.

7. Update the fields in the dialog as follows.
Figure 4-9 Add IP Address Dialog

a. **IP Address**: Leave blank (not required for a PA 800 Plus System).

b. **MAC Address**: Leave blank. (The MAC address is not required and is automatically set to 00-00-00-00-00).

c. Click **Instrument Type** and select **PA800PLUS** from the list.

d. **Serial Number/Unique Name**: Type 1.

e. Click **OK**.

If a message about the MAC address is shown, dismiss the message, type any number in the **MAC Address** field, and then click **OK**.

8. If the Beckman Coulter PACE MDQ Control for Waters Empower Software Driver was previously installed, click the **Instruments** tab.
9. Delete any previously configured instruments associated with the Beckman Coulter PACE MDQ Control for Waters Empower Software Driver.
a. Click the row with the instrument to be deleted and then click **Remove Instrument**. Previously configured instruments have BCPACEMDQ in the **Type** column.

**Figure 4-11 Confirmation Message**

![Configuration Manager dialog box with a confirmation message]

b. Click **Yes** in the message that is shown and then click **Yes** in the message that follows.

c. If there are additional instruments with BCPACEMDQ in the **Type** column, repeat the procedure to delete them.

10. Click **OK**.

The Node Properties dialog closes.

11. If a second PA 800 Plus System is to be connected to the LAC/E module, repeat this procedure except in step 7, type **2** in the **Serial Number/Unique Name** field.

**Note:** The additional steps required to set up the second PA 800 Plus System must be performed by a SCIEX Field Service Employee. Contact SCIEX Technical Support at sciex.com/request-support.
Set Up a New Chromatographic System

The Empower™ Software is designed for chromatography. Therefore any instrument connected to the software is referred to as a "chromatographic system". The PA 800 Plus System must be configured as a chromatographic system before it can be used.

1. In the Configuration Manager window, click **File > New > Chromatographic System**.
   The New Chromatographic System Wizard opens.

   **Figure 4-12 Type Entry Page**

2. Click **Create New System** and then click **Next**.

   **Note**: The list of nodes in the following figure will reflect the local Empower™ Software configuration.
3. Click the node with the PA 800 Plus System and then click **Next**.
4. In the **Available Instruments** list on the left, click **PA800PLUS#1**, drag it to the **New System Instruments** list on the right, and then click **Next**.

5. Update the fields on the page as follows.
Figure 4-15 Access Control Page

- **Share System with Other Network Users:** Select to allow other network users access to the system.

- **Allowed Access:** Select the types of users allowed to access the system. Choices are **Owner Only**, **Owner and Group(s)**, or **Owner, Group, and World**. For the latter two, select the groups in the **Allow Access to Group(s)** list.

- **Allow Access to Group(s):** Select the groups allowed access to the system. At least one group must be selected.

- **Password Protect System Access:** Select **Password Required** to require a password. In the **Password** and **Confirm Password** fields, type the password, up to 30 characters.

- **Click Next.**

6. Update the fields on the page as follows.
a. **System Name**: Type the name of the system, up to 30 characters. The name is used in the Empower database and the Configuration Manager window.

b. **Online**: Select this check box to bring the new system online.

c. **System Comment**: (Optional) Type comments or other identifying information for the system, up to 250 characters.

d. Click **Finish**.

e. If a message about an existing system is configured in another online system appears, click **OK**.

### Define the Buffer and Sample Trays

In the Empower™ Software, the sample and buffer trays in the PA 800 Plus System are referred to as "plates". Plates must be defined in the Empower™ Software. To simplify this process, SCIEX provides text files with the required information that can be imported.

1. Insert the PA 800 Plus Empower™ Driver DVD in the DVD drive.
Configure the Empower™ Software

2. In the Empower™ Software Start dialog, click Configure the System.
   The Configuration Manager window opens.
3. Click Plate Types to show the plates that are already defined.

Figure 4-17 Plate Types in the Configuration Manager Window

4. Create the plate for the buffer tray.
   a. Right-click in the table and then select Import from Text.
   b. Click Browse and then navigate to the PA800Plus Buffer Tray.txt file on the PA 800 Plus Empower™ Driver DVD.

   **Note:** If the DVD is not available, then a copy of the file is included in this document.
   Copy the contents and then paste it in a text file. Refer to Plate Definition Files.
   c. Type PA 800 Plus Buffer Tray in the New Plate Type Name field and then click OK.
The buffer tray is added to the list in the Configuration Manager window.

5. Repeat step 4 to create the sample trays.
   - For the 48-vial sample tray, select the PA800Plus Sample Tray.txt file and then name the plate PA 800 Plus Sample Tray.
   - For the 96-well sample tray, select the PA800Plus 96 Well Sample Tray.txt file and then name the plate PA 800 Plus 96 Well Sample Tray.

As for the buffer tray, if the plate definition file is not available, a copy is available in this document. Refer to Plate Definition Files.

**Note:** The plate definition file for the 96-well sample plate is for a standard SCIEX 96-well plate (PN 609844). To use a 96-well plate from another manufacturer, click File > New > Plate Type in the Configuration Manager window and then define the plate manually.

6. If the Beckman Coulter PACE MDQ Control for Waters Empower™ Software Driver was previously installed, then delete any plates that were created for use with the driver. Right-click the row number for the plate and then select **Delete**.

7. (Optional) To view detailed information about a plate, right-click the row number for the plate and then select **Properties**.

8. (Optional) To delete a plate, right-click the row number for the plate and then select **Delete**.

   Only plates added by a user can be deleted. Pre-defined plates cannot be deleted.

9. Click **File > Exit** to close the Configuration Manager window.
Known Issues in the PA 800 Plus Empower™ Driver

- If the GPIB interface cable is removed from the LAC/E module, then communication to the PA 800 Plus System will be lost. Connect the GPIB interface cable and then restart the LAC/E module.

- In a sample set method, any values in the Injection Volume field are ignored. Instead, the Empower™ Software uses the Duration parameter for the injection event to determine the injection volume.
Plate Definition Files

This section include the plate definitions for the buffer tray, the sample tray, and the SCIEX 96-well sample tray. These plates must be defined in the Empower™ Software.

The files should be installed as part of the PA 800 Plus Empower™ Driver installation.

If they are missing and the plates need to be defined, copy the text, paste it in a text editor, and then save the file.
PA800Plus Buffer Tray Plate Definition File

Empower Profile for Plate Type: CE Buffer Tray
Plate Type: XY
Permanent: No
Plate Terminology: Plate
Well Terminology: Well
Plate Dimensions:
  X: 85.00
  Y: 85.00
  Height: 17.00
Well Dimensions:
  Top Left Well X Location: 9.00
  Top Left Well Y Location: 9.00
  Well Diameter: 12.00
  Well Depth: 14.00
Row and Column Dimensions:
  Number of Rows: 6
  Row Spacing: 13.40 mm
  Number of Columns: 6
  Column Spacing: 13.40 mm

Row and Column Offsets:
  Row Offset Type: None
  Row Offset: 0.00 mm
  Column Offset Type: None
  Column Offset: 0.00 mm
Origin: Bottom Left

Scheme:
  Referencing: XY
  Horizontal: ABC ...
  Vertical: 123 ...
  Sequential Continuous: Off
  Horizontal First Priority: On
PA800Plus Sample Tray Plate Definition File

Empower Profile for Plate Type: CE Sample Tray
Plate Type: XY
Permanent: No
Plate Terminology: Plate
Well Terminology: Well
Plate Dimensions:
  X: 85.00
  Y: 128.00
  Height: 17.00
Well Dimensions:
  Top Left Well X Location: 9.00
  Top Left Well Y Location: 17.10
  Well Diameter: 12.00
  Well Depth: 14.00
Row and Column Dimensions:
  Number of Rows: 8
  Row Spacing: 13.40 mm
  Number of Columns: 6
  Column Spacing: 13.40 mm

Row and Column Offsets:
  Row Offset Type: None
  Row Offset: 0.00 mm
  Column Offset Type: None
  Column Offset: 0.00 mm
Origin: Bottom Left

Scheme:
  Referencing: XY
  Horizontal: ABC ...
  Vertical: 123 ...
  Sequential Continuous: Off
  Horizontal First Priority: On
**PA800Plus 96 Well Sample Tray Plate Definition File**

Empower Profile for Plate Type: 96-Well Sample Tray
Plate Type: XY
Permanent: No
Plate Terminology: Plate
Well Terminology: Well
Plate Dimensions:
  X: 85.00
  Y: 128.00
  Height: 17.00
Well Dimensions:
  Top Left Well X Location: 11.00
  Top Left Well Y Location: 14.50
  Well Diameter: 6.80
  Well Depth: 14.00
Row and Column Dimensions:
  Number of Rows: 12
  Row Spacing: 9.00 mm
  Number of Columns: 8
  Column Spacing: 9.00 mm

Row and Column Offsets:
  Row Offset Type: None
  Row Offset: 0.00 mm
  Column Offset Type: None
  Column Offset: 0.00 mm
Origin: Bottom Left

Scheme:
  Referencing: XY
  Horizontal: ABC ...
  Vertical: 123 ...
  Sequential Continuous: Off
  Horizontal First Priority: On
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SCIEX Support

SCIEX and its representatives maintain a staff of fully-trained service and technical specialists located throughout the world. They can answer questions about the system or any technical issues that might arise. For more information, visit the SCIEX website at sciex.com or contact us in one of the following ways:

• sciex.com/contact-us
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To find software product documentation, refer to the release notes or software installation guide that comes with the software.

To find hardware product documentation, refer to the Customer Reference DVD that comes with the system or component.

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