Using the SQL Server 2016 DVD

Use the enclosed DVD to install Microsoft SQL Server 2016 Standard Edition (English) before installing StruxureWare[™] Power Monitoring Expert software. See the *StruxureWare Power Monitoring Expert 8.2 Installation Guide* for further information about SQL Server and Power Monitoring Expert installations.

Installing SQL Server 2016

Before starting the SQL Server installation, you must be logged in as a user with administrative privileges for installing and configuring software applications. Make sure that no other programs are running, save your work, and close any open applications.

Complete the following steps to install the software:

- Insert the SQL Server 2016 Installation DVD in your DVD drive. If the auto-run process does
 not start automatically, navigate to the root directory on the DVD and double-click
 setup.exe to open the SQL Server Installation Center.
- Select Installation in the left pane and New SQL Server stand-alone installation or add features to an existing installation on the right. A message indicates that the process is starting.
- 3. The **Product Key** page: The product key is provided by default. Click **Next**.
- The License Terms page: Read the license terms then select I accept the license terms and click Next to continue.

NOTE: The SQL Server edition available from Schneider Electric is a "Per Core" license. This SQL server can only be used with Power Monitoring Expert software.

- The Global Rules page: This page identifies any errors that might occur when you install SQL Server Setup support files. If validation is successful, the next page opens. If validation is not successful, correct the errors before continuing.
- The Microsoft Update page: Select the check box if you want to use Microsoft Update to check for updates. Click Next.
- 7. The Product Updates page: Keep the default selection to Include SQL Server product updates. The page will indicate if any updates are available. Internet access is required. The installation of the setup files occurs automatically after clicking Next.



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- 8. The **Install Setup Files** page: Shows the progress of the setup files installation. If successful, the next page opens. If the update process is not successful, follow the instructions on the page then click **Re-run**. Click **Next** when the process completes successfully.
- The Install Rules page: This page identifies any errors that might occur while running Setup.
 If successful, the next page opens. If not successful, follow the instructions on the page and click Re-run. Click Next when the installation is successful.
- 10. The **Feature Selection** page: Under **Instance Features**, select **Database Engine Services**. Click **Next**. The setup process validates that the installation can proceed.
- 11. The Feature Rules page: This page identifies any errors related to the feature selection validation. If successful, the next page opens. If not successful, follow the instructions on the page and click Re-run. Click Next when the process completes successfully.
- 12. The Instance Configuration page: Select Named instance and enter a name in the Instance Name field, for example ION. (Do not use an underscore character (_) within the instance name.) Click in the Instance ID field to automatically add your Instance name entry. Click Next.
- 13. The Server Configuration page: The Account Name for SQL Server Agent and SQL Server Database Engine needs to be NT AUTHORITY\SYSTEM (your local system account). Highlight the existing entries in the Account Name column and enter NT AUTHORITY\SYSTEM for the two services. Click Next.
 - Note that if you specify a Windows account other than the local system account, when you begin installing Power Monitoring Expert, the **Check System** page in the Installer indicates that the service account under which the SQL Server currently runs does not have the required system permissions. To resolve this situation, do one of the following:
 - Temporarily change the SQL Server service to run under an account that has Write permissions to (1) the folder created for the product's databases (the default is the install location for ...\Schneider Electric\Power Monitoring Expert), and (2), for the current logged-in user's Temp folder. (To find the full path to the Temp folder, click Start > Run, enter %Temp% and click OK.) The default local system account is an example of an account with these privileges.
 - Temporarily grant Write permission for the two folders mentioned above to the Windows account that the SQL Server service runs under. Use the Windows Services control panel to identify this account. (Click Start > Administrative Tools > Services, right-click SQL Server, click the Log On tab in the SQL Server Properties dialog.)

You can revert the temporary changes after the installation of Power Monitoring Expert completes.

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- 14. The Database Engine Configuration page: On the Server Configuration tab:
 - a. Select Mixed Mode.
 - Type a password for the SQL Server system administrator (sa) account in the Enter password and Confirm password fields. (Keep a record of the password for future use.)
 - c. Click Add Current User to add the SQL Server Administrator.
 - d. Click the Data Directories tab.
- 15. The Database Engine Configuration page: On the Data Directories tab and TempDB tab, specify a different drive, if available, for the TempDB directory and Temp DB log directory. Click Next to proceed to the Feature Configuration Rules page.
 - The specification of different drives is for performance reasons. If all of the files are located on the same drive, data that is being inserted, updated, or deleted can potentially result in slower write operations than if the Temp DB directories are located on a separate drive. The specification of different drives is dependent on your hardware configuration and may not be possible in all cases. See the *Design Guide* for performance and hard drive considerations.
- 16. The Feature Configuration Rules page: The rules are run automatically to validate that the installation can proceed. If validation is successful, the next page opens. If validation is not successful, follow the instructions on the page and click Re-run. Click Next when the validation is successful.
- The Ready to Install page: The page shows the SQL Server features that are about to be installed. Click Install.
 - The **Installation Progress** page provides a visual indication of the progress of the installation. When the installation finishes, the **Complete** page opens.
- 18. The Complete page: Contains information about the Setup operations or possible next steps, as well as supplemental information related to your installation. Click Close to close the setup dialog.
- 19. Go to the Installation page in the SQL Server Installation Center and click Install SQL Server Management Tools to launch the download Web page for the installation of SQL Server Management Studio. Follow the instructions to install SQL Server Management Studio. A system reboot is required after installing SQL Server Management Studio.

NOTE: Internet access is required. If Internet access is not possible from this server, download the SQL Server Management Studio setup file on a different computer and copy it to the SQL Server computer for installation.

- Go to the Maintenance page in the SQL Server Installation Center and click Launch Windows Update to search for product updates that you can install.
- Close the SQL Server Installation Center.

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NOTE:

- It is recommended that you assess the software security requirements of your organization.
 The potential risks to a SQL Server installation to your organization should be carefully
 evaluated. Use Microsoft's Web site to search for and consult best practices on securing a
 SQL Server installation.
- If you decide that you need to run anti-virus software on your SQL Server as a result of your assessment, follow the recommendations described in Microsoft Support article (ID: 309422) at http://support.microsoft.com/kb/309422.
- For performance reasons, it is recommended that you set memory options for your SQL Server. See "Setting SQL Server memory options" in the *Installation Guide* for a description of the required steps.

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