

# Getting Started with CODESYS Control for PFC200 SL

## Requirements

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- PC with CODESYS Development System (version 3.5.7.3 or later)
- WAGO PFC200 (hardware)
- DHCP server
- Several LAN cables
- Router for connecting components to the Internet
- Established IT network with all connected devices started

Note: All devices must be located in the same IP address space (for example, 192.168.178.xxx).

## Installation

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- Install the "CODESYS Control for PFC200 SL" software package in the package manager of the CODESYS Development System, and restart the CODESYS Development System.
- Execute the "Update PFC200" command in the "Tools" menu.
  - Select the directory where the installed \*.ipk file is located. (Default: C:\Users\\CODESYS Control for PFC200 SL\Delivery\)
  - Select the version of the runtime environment to be installed.
  - Provide the correct login data in the update dialog box (default: root/wago).
  - Type the IP address of the device or scan the network.  
Note: The scanning process can be repeated several times if the device is not found the first time.
  - Click OK to close the dialog box.
- Check in the messages view of the CODESYS Development System that the runtime system has been installed successfully.
- Restart the device.

## Licensing

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- Create a standard CODESYS project in the CODESYS Development System or open the sample project "HowToControlUserLEDs.project".
- For a new project: Insert a WAGO PFC200 device into the project tree (context menu "<project name>" / "Add Device").
- Double-click the device in the project tree.
- Establish communication with the device (click the "Scan network" button, select device).
- Select "PLC settings" / "Edit Licenses".
- Select "Install Licenses".
- Online: Follow the instructions in the dialog box.
- Offline: Save the file, perform activation on an online PC, import the activated file, and follow the instructions in the dialog box.
- Check that the license has been installed correctly on the device by "Reload Dongle(s)".
- The valid license must be listed in the display (green check mark).
- Restart the device in order to use the new license.

Note: License activation locks the license to the single hardware device. Reinstallation is possible only on the same device.

## Backup

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- CODESYS Development System: Double-click the device in the "Files" tab.
- Refresh the runtime view.
- Switch to the "restore" folder on the device (right side of view).
- Copy the file "3SLicenseInfo.tar" from the device to a local directory.

Note: It is best practice to save the backup to an external data storage device.

## Restore

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- CODESYS Development System: Double-click the device in the "Files" tab.
- Refresh the view.
- Switch to the "restore" folder on the device (right side of view).
- Copy the file "3SLicenseInfo.tar" from the local directory to the device folder.
- Restart the device.

## Comments:

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- The runtime environment can also be installed via Web-Based Management. (Refer to the online help for more details.)

## Troubleshooting

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### Question

- Contact with the PLC is lost after manually starting a scan of the K bus without HW connection module or when the SoftPLC is running.
- The application cannot be started in the IDE.

### Answer

- Switch the operating mode switch to "Stop" mode and reset the system.
- The operating mode switch of the WAGO PFC200 must be set to "Run" when starting the IDE.