

WAGO PLC Agent

AI-Based Programming in CODESYS



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Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

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We wish to point out that the software and hardware terms as well as the trademarks of companies used and/or mentioned in the present documentation are generally protected by trademark or patent.

WAGO is a registered trademark of WAGO Verwaltungsgesellschaft mbH.

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1 Provisions

This documentation applies to the CODESYS Add-on "WAGO PLC Agent", software version 1.1.0.

The software must only be installed and operated in accordance with the operating instructions. Knowledge of the operating instructions is required for proper use.

Additional Information

You can find more information on CODESYS in the CODESYS online help at <https://www.helpme-codesys.com/>.

1.1 Intended Use

The PLC Agent is an AI-supported tool that is available as a CODESYS add-on and assists in the programming of WAGO products.

Software operation is only permitted if the system requirements and license conditions are met.

Improper Use

Improper use of the software is prohibited.

Improper use occurs in particular in the following cases:

- Non-observance of the intended use
- Implementation of a Known Misuse
- Use of the software in areas with special risk that require continuous fault-free operation and in which failure of or operation of the software can result in an imminent risk to life, limb or health or cause serious damage to property or the environment (such as the operation of nuclear power plants, weapons systems, aircraft and motor vehicles)

Warranty and Liability

The provisions of the latest WAGO General Terms and Conditions of Deliveries and Services (GTC) apply as well as the Software License Terms for Standard Software (SW-License) applicable to software products and software embedded in WAGO hardware products, both available at: www.wago.com.

In particular, the warranty is void when:

- The software is improperly used.
- The defect is based on (customer-)specific specifications (hardware and software configurations).
- Modifications of the hardware or software by the user or third parties were made that are not described in this documentation and are at least responsible for the occurrence of the defect.

Individual agreements always take precedence.

Obligations of the installer/operator

The responsibility for the safety of an installation or system assembled with the software lies with the installer/operator.

The installer/operator is responsible for the proper installation and the safety of the system. It must comply with the laws, standards, guidelines, local regulations, the state and the rules of technology applicable at the time of installation and must observe the guidelines and instructions described in the operating instructions. The installation requirements of the approvals must also be met.

In the event of non-compliance, the software may not be operated within the scope of the approval.

1.2 Provisions on the Use of Artificial Intelligence

Customer Due Diligence and Disclaimer

The WAGO PLC Agent is an AI-based product that automatically generates information and responses, including program code, based on individual inputs ("outputs"). The WAGO PLC Agent is designed to support CODESYS ST programming and commissioning of the WAGO I/O System. The WAGO PLC Agent generally does not require the input of personal data within the meaning of Article 4 No. 1 of the General Data Protection Regulation (GDPR) for its functionality. If the Customer intends to enter, upload, or otherwise process personal data when using the WAGO PLC Agent, prior written consent from WAGO is required and compliance with GDPR requirements must be ensured. WAGO expressly emphasizes that outputs automatically generated by AI systems may contain errors. WAGO assumes no liability for the accuracy or completeness of the generated outputs. The customer is advised to test all generated outputs before deployment in productive systems. WAGO is not liable for damages resulting from use of untested outputs.

The AI system used for the WAGO PLC Agent is based on an OpenAI model and is provided by WAGO via Microsoft Azure Cloud Services. The version of the underlying OpenAI model can be found in the WAGO PLC Agent Release Note. When using the WAGO PLC Agent, the Microsoft terms and conditions for [☞ Online Services](#) must therefore be observed. WAGO assumes no liability for the copy-right compliance of data used for training purposes, unless such data has been provided by WAGO. The Customer is responsible for obtaining all necessary rights for the use of any copyright-protected outputs.

In addition, the warranty and liability provisions of the [☞ WAGO Software License Terms for Standard Software](#) apply.

Pre-contractual information for "Related Services" pursuant to Article 3(3) of the Data Act can be found on the [☞ WAGO website](#).

1.3 Typographical Conventions


Number Notation

100	Decimals: Normal notation
0x64	Hexadecimals: C-notation
'100'	Binary: In single quotation marks
'0110.0100'	Nibbles separated by a period

Text Markups

<i>italic</i>	Names of paths or files
bold	Menu items, entry or selection fields, emphasis
Code	Excerpts from program code
>	Selection of a menu point from a menu
"Value"	Value entries
[F5]	Identification of buttons or keys

Links

	Link to a topic in a document
	Link to a separate document
	Link to a website
	Link to an email address
Glossary	Link to a glossary entry

Sequence of Action

- ✓ This symbol identifies a precondition.
- 1. Action step
- 2. Action step
 - ⇒ This symbol identifies an intermediate result.
- ➔ This symbol identifies the result of an action.
- Individual action step

Lists

- Lists, first level
 - Lists, second level

Figures

Figures in this documentation are for better understanding and may differ from the actual product design.

Warning Messages


DANGER

Type and source of hazard

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

- Action step to reduce risk

WARNING

Type and source of hazard

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

- Action step to reduce risk
-

CAUTION

Type and source of hazard

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

- Action step to reduce risk
-

NOTICE

Type and source of malfunction (property damage only)

Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.

- Action step to reduce risk
-

Information Notices

Note

Information

Indicates information, clarifications, recommendations, referrals, etc.

1.4 Legal Information

Intellectual property

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Third-party products are always mentioned without any reference to patent rights. WAGO GmbH & Co. KG, or the manufacturer of third-party products, retains all rights regarding patent, utility model or design registration.

Please also note the rights of the mentioned trademarks:

CODESYS is a registered trademark of CODESYS Development GmbH.

Subject to Change

The instructions, guidelines, standards, etc., in this manual correspond to state of the art at the time the documentation was created and are not subject to updating service. The installer and operator bear sole responsibility to ensure they are complied with in their currently applicable form. WAGO GmbH & Co. KG retains the right to carry out technical changes and improvements of the products and the data, specifications and illustrations of this manual. All claims for change or improvement of products that have already been delivered – excepting change or improvement performed under guarantee agreement – are excluded.

Licenses

The product is protected by license mechanisms. You can find more information at: [🔗 Licenses \[► 12\]](#).

2 Security

2.1 General Safety Regulations

- This documentation is part of the software. Therefore, keep the documentation for the entire service life of the software. Pass on the documentation to the next user of the software. In addition, ensure that any supplement to this documentation is included, if necessary.
- Any actions related to the use of WAGO software may only be performed by qualified staff with sufficient knowledge to use the respective PC system.
Steps in which files are created or changed on a PC system may only be performed by qualified employees with sufficient knowledge in the administration of the PC system used in addition to file creation or modification.
Steps that change the PC system's behavior within a network may only be performed by qualified employees with sufficient knowledge of administration of the responsible network.
- Set up permissions management for authorized persons.
 - Digital access may only be made by authorized persons.
- Comply with the laws, standards, guidelines, local regulations and accepted technology standards and practices applicable at the time of installation.

2.2 Indirect Safety

- If automation solutions are implemented that can lead to personal injury or significant property damage in the event of failure, you must take appropriate measures to ensure that the system remains in a safe operating state even in the event of failure.
- Give all products in a network different IP addresses.
- Never connect a PC on which a DHCP server is installed to a global network. Larger networks usually already have a DHCP server, which can cause collisions that lead to network breakdown.
- Use only the latest security software.
- Uninstall or disable all software components or programs on your PC that are not required for the intended use.

3 Overview

The WAGO “PLC Agent” software is an interactive tool that supports programming in CODESYS.

In addition to AI support from OpenAI's GPT model, the PLC Agent integrates information from various WAGO sources. The PLC Agent has knowledge about WAGO automation products, [WAGO programming libraries](#) and CODESYS example projects. This makes the tool a comprehensive tool that supports both programming and error detection and correction. In addition, product information can be accessed directly, making relevant technical details quickly available.

4 Requirements

4.1 System Requirements

The WAGO PLC Agent is installed as an add-on in the IEC CODESYS development environment.

The installation of the add-on requires that the CODESYS development environment is installed in at least the following version:

- CODESYS V3.5 SP17 Patch 3

Exception Rules When Firewall Is Used

If your network is protected by a firewall, you may need to define exception rules in order to use the PLC agent.

Mandatory; access to the following domains via HTTPS on port 443 is required:

- plc-agent.wago.com
- authentication.plc-agent.wago.com
- login.wago.com
- account.wago.com
- gigya.account.wago.com
- gigya.www.wago.com
- gigya.wago.com
- cdns.eu1.gigya.com
- hosted.gigyax.com
- static.gigya.com

We also recommend allowing WebSocket Secure (wss) connections to the following domains:

- plc-agent.wago.com

Registration for WAGO "Premium" User Account

To use the software, a WAGO account (at least permission level "Premium") is required. Registration is free of charge.

New registration:

🔗 <https://account.wago.com/en-US/registration/premium>

Upgrade from "Basic" to "Premium" permission level:

🔗 <https://account.wago.com/upgrade/upgrade-to-premium>

4.2 Licenses

The software is protected by licensing mechanisms. For productive software usage, a license is required.

The full scope of the software can be used without a license for a trial period of 50 requests. Once the trial period has expired, a license key is required for use for a further 3, 12, or 24 months.

You can only enter a new license once the previously activated period has elapsed. The current license status can be checked in the settings.

Previously saved chats can still be accessed even after the trial period or licensed period has elapsed. Only new requests will no longer be accepted by the system.

Purchase a License

You can purchase the license in the WAGO eShop on the following pages:

Item Number	License Items
2759-611/1659-1003	WAGO PLC Agent; 3 months; Single License; Online activation Obtain a 3-month license at: https://www.wago.com/global/software/wago-plc-agent/p/2759-611_1659-1003
2759-611/1659-1012	WAGO PLC Agent; 12 months; Single License; Online activation Obtain a 12-month license at: https://www.wago.com/global/software/wago-plc-agent/p/2759-611_1659-1012
2759-611/1659-1024	WAGO PLC Agent; 24 months; Single License; Online activation Obtain a 24-month license at: https://www.wago.com/global/software/wago-plc-agent/p/2759-611_1659-1024

1. Log in to the WAGO eShop with your user data (see also [🔒 Registration for WAGO "Premium" User Account \[> 11 \]](#)).
 2. Select a license for 3, 12 or 24 months.
 3. Purchase the license.
- ➔ After purchase, you will receive an email with the license certificate. The certificate contains the license keys that you need for further activation.

Activate a License

- ✓ The license has been purchased.
 - ✓ The license certificate is available.
 - ✓ An Internet connection has been established (required for activation).
1. Open the WAGO PLC Agent in CODESYS.
 2. Log in with your user data.
 3. Click the **[Activate license]** button.
 4. Enter the license key from the license certificate.
 - ⇒ **Note:** Please note that once activated, the license is linked to your WAGO account and cannot be transferred to other accounts thereafter.
 - ⇒ If the activation fails, follow the instructions in the dialog.
 5. Click **[Activate]**.

- The license has been activated. You can use the WAGO PLC Agent for the period purchased.

4.3 Hardening Measures

4.3.1 Secure Operating Environment

The software creates project files. The project files are unencrypted.

The project files can only be used in a secure operating environment that meets the following minimum requirements:

- Protected network segment
- Authorized access
- Secure Storage

5 Installation

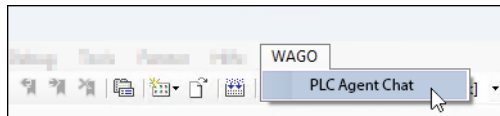
- ✓ The [CODESYS](#) development environment ≥ V3.5 SP17 Patch 3 is installed.

Download add-on from the WAGO Download Center

1. Open the [WAGO Download Center](#).
2. Click the "PLC Agent" add-on under "CODESYS Add-ons."
3. Click **[Download]** and agree to the Privacy Policy and the WAGO Software License Terms.

Install add-on in CODESYS

1. Open CODESYS as an administrator.
Note: Logging in with administrator rights is required to install add-ons.
 2. Open the **CODESYS Installer...** via the "Tools" tab or via the Start menu > "CODESYS" > "CODESYS Installer."
 3. Click **[Install file(s)]** at the bottom of the "Add-ons" area.
 4. Select the downloaded *.package file for the add-on.
 5. Click **[Open]** and follow the instructions in the installation process.
- ➔ After installation, you will find the add-on as a "WAGO PLC Agent" menu entry in the "WAGO" tab.



- ➔ Installation directory:

C:\Program Files\CODESYS[version]\CODESYS\PlugIns

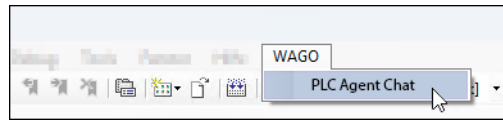
6 Start

- ✓ The “PLC Agent” add-on is installed in the CODESYS development environment (see [🔗 Installation \[▶ 14\]](#)).
- 1. Open CODESYS.
- 2. On the “WAGO” tab, click **PLC Agent Chat**.
 - ⇒ The PLC agent opens as a chat window.
- 3. Click on [**Continue with Customer-Login**].
- 4. Log in with your WAGO „Premium” Account.

Note: If you do not have a WAGO account yet, first create a free user account (see [🔗 Registration for WAGO “Premium” User Account \[▶ 11\]](#)).
- 5. Customize the user interface to suit your preferences by dragging and dropping the chat window to move, enlarge, or reduce its size.

7 Graphical User Interface

The chat window is opened via the CODESYS user interface.



The chat window has the following structure:

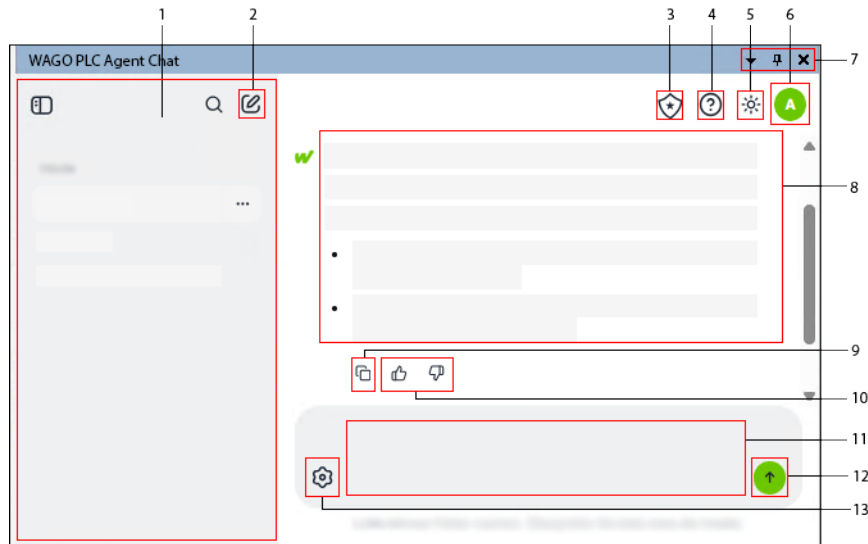












Figure 1: Chat window







No.	Description
1	<p>Search History </p> <p>The sidebar with the search history can be shown or hidden by clicking on the icon. Interactions from the chat are recorded chronologically in this area. Previously asked questions and answers can be retrieved again, e.g., to maintain the context of the conversation.</p> <p>The following actions can be performed using the three points (...) behind each chat in the history list:</p> <ul style="list-style-type: none"> Rename the chat teaser displayed to find the reply more quickly in the history list. Remove chat from search history. <p>Clicking the magnifying glass icon opens a dialog for entering a search term within the history.</p>
2	<p>Start new chat </p> <p>Starts a new conversation thread in the chat. A new chat is recommended when the previous topic has been completed or changed and a new topic begins.</p>
3	<p>Activate license </p> <p>Opens a dialog for entering the license key (see 🔗 Licenses [► 12]).</p>
4	<p>Open online help </p> <p>Opens a browser window with the online help.</p>
5	<p>Change design</p> <p>Changes the appearance of the interface depending on your preference or ambient light. The following settings are available:</p> <ul style="list-style-type: none"> Light Theme <ul style="list-style-type: none"> Light background. Useful in well-lit environments to increase readability. Dark Theme <ul style="list-style-type: none"> Dark background. Useful in darker environments and for reducing eye strain. Follow System <ul style="list-style-type: none"> The system setting is used.

No.	Description
6	<p>Login </p> <p>Displays the logged-in user. The user can be logged out via Logout .</p>
7	<p>Customize Chat Window</p> <ul style="list-style-type: none">  Opens the window customization options: "New horizontal/vertical tab group," "Undocked," "Dock," "Hide"  Pins the chat window as a bar on the right edge of the CODESYS window.  Closes the chat window.
8	<p>Output Area for Responses</p> <p>Area where generated answers, information, and results are displayed.</p>
9	<p>Copy answer </p> <p>The clipboard icon can be used to copy the last answer to the clipboard for further processing.</p>
10	<p>Feedback</p> <p>Feedback on the quality of the responses can be provided. For this purpose, select "Thumbs up"  (answer helpful) or "Thumbs down"  (answer not helpful). Feedback can then optionally be entered as free text. The feedback is incorporated into continuous improvements to the responses.</p>
11	<p>Enter Prompt</p> <p>Prompts containing questions, instructions, or information are entered into the input field to interact with the system.</p>
12	<p>Send Prompt </p> <p>The text entered is sent to the system to receive a response or to trigger an action. Alternatively, the prompt can be sent by pressing the Enter key.</p>
13	<p>Settings </p> <p>Opens a dialog window with the following content:</p> <ul style="list-style-type: none"> • Display of remaining requests (max. 800 per week) • License status (validity according to the purchased license period) • Function "Enable Project Integration" (recommended feature) When project integration is enabled, the WAGO PLC Agent receives information about the project structure used in the device tree, current error messages, and libraries used in the Library Manager. <div data-bbox="456 1191 887 1610" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>Settings panel ✕</p> <p>Available Requests</p> <div style="border: 1px solid green; width: 100%; height: 10px; margin-bottom: 5px;"></div> <p>Remaining requests for this week: 799</p> <p>License</p> <div style="border: 1px solid green; width: 100%; height: 10px; margin-bottom: 5px;"></div> <p>Your license is valid from 04/02/2026 to 04/05/2026.</p> <p>Enable Project Integration – Recommended</p> <p><input checked="" type="checkbox"/></p> <p><small>This option allows the PLC Agent to automatically access your CODESYS project information (device tree, current error messages) for improved efficiency. Activation is recommended for optimal performance. For more detailed information on project data processing, please refer to the product manual.</small></p> <div style="text-align: right; margin-top: 10px;"> Cancel Confirm </div> </div> <p>During the trial period (without an activated license), the number of remaining requests (max. 50) is displayed:</p> <div data-bbox="456 1700 887 1841" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p>Settings panel</p> <p>Trial Phase</p> <div style="border: 1px solid green; width: 100%; height: 10px; margin-bottom: 5px;"></div> <p>You are in the trial phase. You can make 50 requests for free. Remaining requests: 10</p> </div>

8 Operating

Observe the following operating instructions:

- Please note the information on data processing by AI under [🔗 Provisions on the Use of Artificial Intelligence \[▶ 5\]](#)
- Note the access restriction of 800 requests per week.
The length of a request is limited to 12,000 characters.
- The processing and storage of the sent chat messages takes place via Microsoft Azure Cloud in Europe. However, Microsoft does not analyze the data and does not use it for the training of AI models.
- Do not enter any personal data.

1. Install the WAGO PLC Agent (see [🔗 Installation \[▶ 14\]](#)).
2. In CODESYS, open the chat window of the PLC Agent and log in (see [🔗 Start \[▶ 15\]](#)).
3. Familiarize yourself with the user interface and the various operating elements (see [🔗 Graphical User Interface \[▶ 16\]](#)).
4. Enter prompts with questions, instructions, or information in the input field to interact with the system.
Tip: You can enter prompts in your native language. The responses will be translated for you accordingly.
5. In the settings , select the "Project integration" option (recommended) if you want to include the project structure used in the device tree, current error messages, and libraries used in the Library Manager to answer your question.
Note: Source code is not yet being evaluated. For specific questions regarding your source code, please insert it into the chat window.
6. Click the button  (Send Prompt) to receive a response or to trigger an action. Alternatively, send the prompt by pressing the Enter key.
⇒ The response is displayed in the chat window.
7. To view the search history of previously asked questions, open the sidebar using the corresponding icon .
8. Navigate through the history. For example, click to open previous questions.
9. To start a chat in a new context, click the icon .
10. End the chat session by logging out. Click the login icon  and select **Logout** .

Optimize Prompts

The content and structure of your prompt influence the quality of the response. The following tips will help you get good responses.

- **Provide Context**

Provide sufficient information and explanations so that the PLC Agent understands your request. For example, actively ask whether more information is needed to answer the question.

- **Refine Dialog**

You will receive better responses if you refine your query using multiple prompts.

- **Only discuss one topic per chat**

Do not mix topics within one dialog. Start a new chat for new topics by clicking the  button (New Chat).

8.1 Application examples

The PLC Agent uses CODESYS libraries and example projects as a knowledge base. This enables it to provide support for specific tasks related to the programming of WAGO components.

The following examples provide a brief overview of possible questions:

- Ask questions about CODESYS libraries and corresponding applications.
- Ask questions about the specific functionality of WAGO's own libraries.
- Display sample projects.
- Create code examples for using different libraries.
- Get support for multilingual translations.

Below are some specific examples of possible queries:

► Implementation of Projects with WAGO Devices

This example searches for options to connect a PFC to a cloud and log measured values.

Example prompt

„My machine sends measurement values to the PFC in a 30s interval. I want to send the data to the cloud every 15 min. Which option do I have to log the data with my WAGO device? Please return the specific function blocks (fb).“

Possible answer

„The library you need is probably the WagoAppCloud. Below are the options you got to periodically send your measurement data to the cloud with their steps and function blocks needed:

- Option A: Native MQTT (FbPublishMQTT, FbSubscribeMQTT, ...)
Consider using Native MQTT if...
- Option B: WAGO Protocol (FbCollectionLogger, FbCommandListener, ...)
WAGO provides an own protocol in case...
- Option C: Sparkplug (FbEdgeNode, FbDevice, ...)
If the receiving cloud speaks sparkplug...

If you could further specify the requirements of your application, I could recommend you one of the options and continue with providing you an implementation suggestion.“

► Generating Code

A code example is sought to obtain the measured values from a 3-phase power measurement module.

Example prompt

„I've connected the WAGO 750-494 3-phase power measurement module to my PLC. How can I access the measurement values? Please explain what I need to do and provide a code example if possible.“

Possible answer

„Use the WAGO 750-494-specific function block from the WagoAppPowerMeasurement (FbAC_Values_494, FbAC_Compact_494, ...).

The FbAC_Values_494 provides 4 measured values. These are selected through corresponding IDs in the parameters. You can specify the IDs for the measurement values you want to access. Here is a list of the IDs for each possible value: ...

The FbAC_Compact_494 provides the most common measurement values.

The following code example shows how different values are accessed through the FbAC_Compact_494:

```
//- ST Code -  
...  
//- End of ST Code -
```

If you tell me the specific values, you want to access I can refine the code example.”

► Explain Existing Code

Help should be provided to navigate unfamiliar source code. The code is transferred to the chat window for this purpose.

Example prompt

„My colleague sent me a CODESYS project. Can you help me understand the project by explaining the code in serialCommunication (PRG)? Here I send the code: ...”

Possible answer

„This PROGRAM implements a simple, robust serial-communication cycle: open a configured serial port, send a message, wait for a reply, mark when a full reply has arrived, wait until the reply is processed by other logic, then repeat. It uses WAGO’s FbSerialInterface_cpt function block to abstract the low-level device access.

Components:

- Serial interface FB (FbSerialInterface_cpt)
- Buffers
- ...

Code structure:

- State Machine with the following States:
- ...

Please reach out to me if I can help you making changes to the code.”

9 Uninstall

1. Open CODESYS as an administrator.
Note: You must log in with administrator rights to uninstall add-ons.
2. Open the **CODESYS Installer...** via the "Tools" tab or via the Start menu > "CODESYS" > "CODESYS Installer."
3. Select the installed add-on in the "Add-ons" area at the bottom.
4. Click **[OK]** to confirm the uninstallation.
→ The add-on is uninstalled.

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