Data Sheet CODESYS Control for PFC200 SL

This product allows users to program different models of the WAGO PFC200 controller by using the free CODESYS Development System (V3).

Product description

CODESYS Control for PFC200 SL is a SoftPLC-based on CODESYS V3 for the WAGO PFC200 industrial PLC. After installation of the runtime environment, the PLC can be engineered with the CODESYS Development System (V3).

- Download of the product "CODESYS Control for PFC200 SL" from the CODESYS Store (http://store.codesys.com)
- Installation of CODESYS SoftPLC on a WAGO PFC200 device (http://www.wago.com)
- Exchange of the WAGO PLC runtime environment (as delivered by WAGO) for a standard CODESYS V3-compatible SoftPLC.
- PLC configuration with WAGO software tools

Benefits

- Suitable for PLCs in the sectors of factory and process automation (with new defined PLC functional range)
- Comprehensive engineering solution with the free CODESYS Development System (V3), extensible by add-ons from the CODESYS Store
- Efficient engineering with the products of the CODESYS Professional Developer Edition (code management via link to Apache Subversion, static code analysis, runtime measurement on the PLC, CODESYS Test Manager for test automation, methodical application development with UML diagrams)
- Same performance and cycle times of the fieldbus tasks as for the OEM product, for example when using local I/O modules

Detailed information can be found in the CODESYS Online Help.

Interfaces

- CODESYS OPC UA Server, as full version for data exchange.
- Support of all popular digital and analog input and output modules from WAGO (download list from CODESYS Store)

Visualization

- CODESYS WebVisu, is included as full version in the delivery of the runtime package.

SL Extension

The SL Extension Package is included in the Runtime Package and offers additional functions:

- Integration of existing C code
- Implementation of external functions
- Support of start/stop switches
- Usage of local I/Os
- Use of external event tasks
- Connect persistent memories (Retains)

Fieldbus support

With the delivery of the Runtime Package the following fieldbuses are supported:

- CODESYS CANopen Manager / Device (except 750-8202 / -8212)
- CODESYS EtherCAT Master
- CODESYS EtherNet/IP Scanner / Adapter
- CODESYS J1939
- CODESYS Modbus TCP Master / Slave
- CODESYS Modbus Serial Master / Slave (only 750-8202 / -8212)
- CODESYS PROFINET Controller / Device

Product options

Further products can be licensed for a fee:

- CODESYS KNX SL
- CODESYS Redundancy SL

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General information

Supplier:

CODESYS GmbH
Memminger Strasse 151
87439 Kempten
Germany

Support:

Technical support is not included with this product. To receive technical support, please purchase a CODESYS Support Ticket.

https://support.codesys.com

Item:

CODESYS Control for PFC200 SL

Item number:

2302000010

Sales/Source of supply:

CODESYS Store
https://store.codesys.com

Included in delivery:

- Package for the CODESYS Development System including CODESYS Control, license agreement, online help and device description
- License Key

System requirements and restrictions

Programming System	CODESYS Development System V3.5.17.0 or higher
Supported Platforms/ Devices	• 750-8202 / -8212 (PFC200 CS 2ETH RS) • 750-8203 / -8213 (PFC200 CS 2ETH CAN • 750-8204 / -8114 (PFC200 CS 2ETH RS CAN) • 750-8206 / -8216 (PFC200 CS 2ETH RS CAN DPS) • 750-8207 (PFC200 CS 2ETH RS Mobil Radio) • 750-8215 (PFC200 G2 4ETH CAN USB) Note: Use the tool "Device Reader" to find out the supported features of your device (free of charge component of CODESYS Development System).
Additional Requirements	See license agreement. After installation, the user is responsible for implementing and checking the

functionality of the combination of the software package and hardware according to device specifications.

- Minimum WAGO firmware version 17
- Dynamic libraries needed by the CODESYS Control Runtime binary:
  - libm.so.6
  - libpthread.so.0
  - libdl.so.2
  - librt.so.1
  - libc.so.6
  - libgcc_s.so.1
  - libdbus-glib-1.so.2
  - libdbuskbuscommon.so.0
  - libffi.so.6
  - libglib-2.0.so.0
  - liblibloader.so.0
  - libnvram.so.0
  - libuio.so.0
  - liboms.so
  - libtypelabel.so
  - libdiagnostic.so

Restrictions	• Protocols for telecontrol technology are not supported. • Not released for use in containers or virtual machines (VMs)!
Licensing	 Single device license: The license can be used on the target device/PLC on which the CODESYS runtime system is installed. Licenses are activated on a software-based license container (soft container), which is permanently connected to the controller. Alternatively, the license can be stored on a CODESYS Key (USB dongle). By replugging the CODESYS Key, the license can be used on any other controller. Note: In demo mode, the software runs for two hours without a license. After that, a manual restart is required.
Required Accessories	-

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.

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