

Release Notes

PLC500, PLC500ED, PLC500MC, PLC410



SUMMARY OF RELEASES

The information below describes the key features of each firmware version released. The term **PLCX** refers to the WEG PLC models: PLC410, PLC500, PLC500ED and PLC500MC.

| FIRMWARE UPDATE PLCX | | |
|----------------------|------------|----------------------------------------------------------------------------------|
| Version | Date | Key releases |
| 1.3.1 | 01/01/2024 | Optimized internal memory usage, Enhanced expansions communication |
| 1.3.0 | 01/12/2023 | CODESYS EtherNet/IP Scanner, CODESYS Soft Container and CODESYS Key (USB dongle) |
| 1.2.1 | 01/09/2023 | Disabled the internal overload watchdog (Overload Exception) |
| 1.2.0 | 01/03/2023 | CODESYS IIoT Libraries, CODESYS EtherCAT Master and FTP/FTPs server |
| 1.1.0 | 01/09/2022 | Function blocks to encoders |
| 1.0.2 | 01/07/2022 | Function blocks to control expansions |
| 1.0.1 | 01/06/2022 | First Edition |

1 RELEASES

FIRMWARE UPDATE PLCX 1.3.1 - 01/01/2024

CODESYS RELATED

Improvements:

- Optimized internal memory usage.
 - Enhanced expansions communication.
 - Factory reset removes additional log files.
 - Factory reset can also be executed by the PLC Shell in Codesys.
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FIRMWARE UPDATE PLCX 1.3.0 - 01/12/2023

CODESYS RELATED

New features:

- **EtherNet/IP Scanner** available.
- **CODESYS Soft Container** for software licensing.
- **CODESYS Key (USB dongle)** for secure storage of software licenses.
- Implemented automatic scanning and connection of expansions.
- Support for identifying devices with Wink.
- Introduced PLC Shell WEG:
 - weg webpage enable.
 - weg webpage disable.
 - weg webpage status.
 - weg webpage reset (reset credentials).
 - weg hash (technical support).
 - weg reboot (reboot the PLC).

Improvements:

- Memory:
 - Persistent memory expanded from 16 kB to 64 kB.
 - Input size (%I) expanded from 4 kB to 16 kB.
 - Output size (%Q) expanded from 4 kB to 16 kB.
 - Memory size (%M) expanded from 4 kB to 16 kB.
- LEDs:
 - Added orange pattern to show active processes before startup.

Releases

- Enhanced LED's function blocks.
- Status LED powers off whenever the application is deleted.
- Status LED blinks in red when an application is invalid.
- New function blocks:
 - Read internal memory.
 - Read network status.
 - Read internet connection.
- Improved expansions communication.
- Fixed error in RS485 device when no devices are plugged in.
- Enhanced CAN capabilities via function blocks.
- Maximum number of open files in an application set to 300 files.

ADDITIONAL RELEASES

- Support for exFAT format (SD cards and USB devices).
- Webpage updates¹:
 - Added Codesys version information.
 - Added internet connection status.
 - Added memory usage information.
 - Added descriptions for several elements.

FIRMWARE UPDATE PLCX 1.2.1 - 01/09/2023

CODESYS RELATED

Improvements:

- Increased the number of Codesys channels from 4 to 16.
- Disabled the internal overload watchdog (Overload Exception).

ADDITIONAL RELEASES

- CODESYS Profinet's demo mode available.

FIRMWARE UPDATE PLCX 1.2.0 - 01/03/2023

CODESYS RELATED

New features:

- **CODESYS IIoT Library** available (MQTT Client, Web Client, etc).
- **EtherCAT Master** available.
- Support to **MOD8.00-SCW** (Control up to four SCW).

Improvements:

- Added expansions function blocks.

ADDITIONAL RELEASES

- Optimized coprocessor communication.
- Webpage updates¹:
 - Implemented **Login Page** with username and password.
 - Added a **FTP/FTPS server** to easily transfer files.
 - Possibility to download Codesys logs.
 - Included button “Set clock from browser”.

FIRMWARE UPDATE PLCX 1.1.0 - 01/09/2022

CODESYS RELATED

New features:

- User can access PLC's logs in “Device → Files”.
- New function blocks to set/reset encoders' counter.
- New examples of how to use WEG libraries function blocks.

Improvements:

- SD card will be mounted as \$SDcard\$ instead of \$SD card\$.

ADDITIONAL RELEASES

- Removing power for more than 2 seconds will trigger the PLC reboot after next power on.
- Added Boot Application update via Webpage¹.

FIRMWARE UPDATE PLCX 1.0.2 - 01/07/2022

CODESYS RELATED

New features:

- CAN and SERIAL LEDs functionalities can be chosen.
- New function blocks to control expansions' parameters during runtime.
- New function block to disable expansions on the Codesys device tree.
- New function block to identify all connected expansions.
- WEGpackage installs several **.eds** files of WEG products.

Improvements:

- More efficient writing on digital outputs.
- PWM outputs follow “PLC Settings → Behavior for outputs in stop”.
- Enhancements in identifying disabled expansions.

¹Applicable for PLC410, PLC500 and PLC500MC. PLC500ED uses a different Webpage software (Coreapp).

Releases

ADDITIONAL RELEASES

- Increased performance when reading CPU and networks status.

FIRMWARE UPDATE PLCX 1.0.1 - 01/06/2022

CODESYS RELATED

Improvements:

- Recognition of expansions.
- Readout of MOD6 parameters.
- Impossibility of configuring ethernets on the same network.
- Enhancements in the PWM channels.
- Encoder mode settings, functionalities and function blocks.

ADDITIONAL RELEASES

- Scripts for network settings.
- Webpage updates¹:
 - **Factory reset** erases the application and restores networks.
 - **Date and time settings**.
 - Summary of firmware update versions.

¹Applicable for PLC410, PLC500 and PLC500MC. PLC500ED uses a different Webpage software (Coreapp).



WEG Drives & Controls - Automation LTDA.
Jaraguá do Sul - SC - Brazil
Phone 55 (47) 3276-4000 - Fax 55 (47) 3276-4020
São Paulo - SP - Brazil
Phone 55 (11) 5053-2300 - Fax 55 (11) 5052-4212
automacao@weg.net
www.weg.net