

# Software



When new software is available an update symbol  is shown on the screen. Go to settings to [install the update](#). If you have any questions, push the question mark button on the screen or contact us.

[See what version your robot runs on](#)

The latest software for the operator panel (PLC) is denoted **1.19**. The latest firmware is denoted **16.32**.

The latest software for the control electronics (PCB) is denoted **1.24**.

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## PLC software change log

### 1.19 (2023-08-11)

#### New features

Elapsed time is shown during teach-in

Once a recipe has been used a first time, the recipe run time is shown when starting the next wash

Added support for Polish language

Possibility for service technician to increase reel power (Note! Only to be used with 2024 reel motor upgrade as it will break older motors)

#### Improvements

Updated color scheme and icons

Detailed guidance wheel setting is saved and displayed

Indicators of needed homing added for boom and telescope

Possibility to create new locations with virtual markers removed

Wiki-link displayed on help and alarm screens

Zero sensor alarms for arm and nozzle motors improved

#### Fixed issues

Current detection alarms removed

Removed possibility to use forbidden characters in names

Limit file name input to 30 characters

### 1.18 (2022-06-08)

#### Fixed issues

Updated default communication server settings

## 1.17 (2021-09-22)

### New features

Delayed start of first recipe, set in hours

Robot tries to untangle stuck hose reel between recipes by moving forward 1000 pulses

Power to telescope automatically increased beyond position 375 if stuck

### Improvements

Feedback on notification feature termination

Soft alarms are no longer flashed during automatic washing, but still found in alarm list

Time limit for low water pressure alarm is increased to 120 s (from 30)

### Fixed issues

Removed possibility to set 0 as last marker number

## 1.15 (2020-06-11)

### New features

Added support for undo from joystick (SHIFT1+SHIFT2 then WATER button = UNDO)

Added support Romanian language (separate configuration)

Added support Hungarian language (separate configuration)

Tower and telescope movements will now accept a difference of 10 pulses from target without alarming for getting stuck

### Improvements

Automatic run remains paused after emergency stop has been reset

Removed possibility to save empty programs

Other functions are now blocked when wheels are toggled in manual mode

Min and max position for tower and arm removed from Service screen

## 1.13 (2019-12-19)

### New features

Added support for Wi-Fi configured routers

## 1.12 (2019-11-19)

### Improvements

Improved reliability of hose spreader performance

## 1.11 (2019-10-09)

### New features

Added support for Spanish language

Added support for Dutch language

## **1.9 (2019-07-02)**

### **New features**

Added alarms for low and high pressure

Added setting for not going back to the first marker after the recipe is finished

Added support for German language

The robot now sends SMS if washing is aborted unexpectedly

Added support for Korean language

### **Improvements**

Improved guidance when an update is available

Washing is now blocked if homing is not done or if all positions have been reset

Improved battery status accuracy

Improved low battery handling and prevention '

## **1.8 (2018-12-07)**

### **New features**

Added support for virtual markers

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## **PCB software change log**

### **1.24 (2021-11-10)**

Minor correction of hose reel standby control

### **1.22 (2021-03-19)**

Faster start of hose reel motor

### **1.20 (2019-05-02)**

Softer ramping of power to the hose reel motor

Delay PLC power on

Updated current measurement algorithm

### **1.16 (2019-01-24)**

Support for pressure sensor

## PLC firmware change log

### 15.52

Manufacturer fixed issue where it was possible for the unit to get stuck while booting which could result in complete backup battery drain if left unresolved

Manufacturer fixed issue where units were not shutting down properly when backup battery voltage was below 2.0 V

### 15.40

Manufacturer fixed issue with backup battery possibly being drained after quick power toggles

Manufacturer fixed issue with false failing selftests due to backup battery and loss of data

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