Automatic Software Versions

Version 2.50

EN

Overview of all Software Versions

Automatic^{Salt} / Automatic$^{Cl\text{-}pH}$ / Automatic^{pH}

(Devices from serial numbers 22ASE2-xxxxx, 22ACL2-xxxxx, 22APH2-xxxxx)

Valid for

Automatic^{Salt}
Automatic$^{Cl\text{-}pH}$
Automatic^{pH}

BAYROL TECHNIK

1 Overview of all Automatic devices software releases up till version v2.50

This document applies to devices with following serial numbers:

22ASE2-xxxxx
22ACL2-xxxxx
22APH2-xxxxx

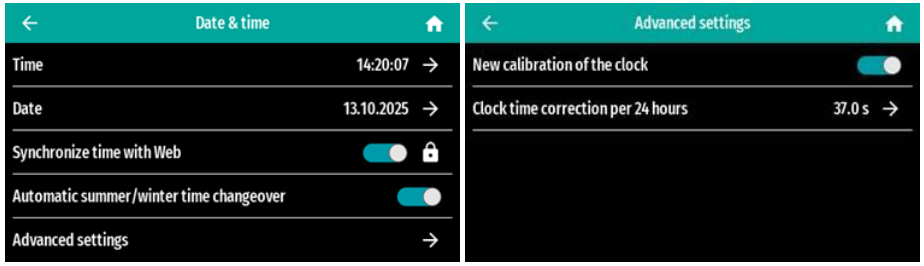
Advice: The current installed software version on an Automatic controller can be displayed by pressing “Menu” – “Service Menu” – “Software Update”

Version	Release Date	
v2.50 (260203-0001)	**03.02.2026**	**New Features**
		Daily dosing limit for pH • Limits total pH chemical dosed per day. When the limit is reached, dosing is blocked and an alarm message is shown. • Counter resets at midnight; alarm persists until user confirms in the message wizard. • Counter preserved across power cycles (reset if limit was already reached). • Limits automatically pre-set based on pool volume. • Config: Service menu > Expert settings > pH expert settings > Daily dosing limits pH (0 = disabled). **Daily dosing limit for chlorine** • Same concept as pH daily limit, applied to the chlorine pump (mV control). pH and chlorine limits are fully independent. • Additional display: mg/l Cl2 (based on Chloriliquide 12%). • Config: Service menu > Expert settings > Redox expert settings > Daily dosing limits chlorine (0 = disabled). **Out-of-range monitoring for pH and redox (mV)** • Blocks dosing when measurements are far outside the expected range (unlike existing warnings which only warn). • pH: checks upper limit for pH minus (default >= 9.0), lower limit for pH plus (default <= 5.0). Blocks both pH and chlorine dosing / salt electrolysis • mV / redox: checks lower limit only (default <= 100 mV). Blocks chlorine dosing / salt electrolysis only. • Configurable delay (default 60 s) • Alarm auto-clears with hysteresis or via message wizard. • Config pH: Expert settings > Automatic pH monitoring. • Config mV: Expert settings > Automatic redox monitoring.

Version	Release Date	
v2.50 (260203-0001)	**03.02.2026**	**Improvements**
		Relay monitoring and refresh (Salt Electrolysis) • Continuous relay health monitoring • Automatic recovery via refresh cycles. • Permanent fault message if recovery fails. • Different messages depending on the fault analysis **Hardware support: 2026 mainboard revision** • New WiFi module (no user-relevant changes). • New hardware real time clock (RTC) with improved precision. • Full backward compatibility of the software with all existing ASE2/ACL2/APH2 hardware

Version	Release Date	
v2.30 (250527)	**14.10.25**	**Improvements**

Automatic or manual calibration of the clock



- Depending on the production batches of the main board there could be significant deviations of the clock time of the controller.
  An automatic calibration of the clock has now been introduced to improve the accuracy of the clock time.
- New sub menu in the „Date & time“ menu: „Advanced settings“
- Activate the toggle button „New calibration of the clock“ to start a new automatic calibration.
  - It is not necessary to do this after the software update to v2.30, because the toggle button is active by default
- Once the clock calibration has been done, the toggle button is automatically deactivated.
  You can reactivate it manually to trigger a new calibration of the clock.
- The parameter „Clock time correction per 24 hours“ stores the correction, which is calculated during clock calibration
  - It is possible to modify this parameter manually to further improve accuracy of the clock

New monitoring concept for salt electrolysis relays

- A new concept makes sure that salt electrolysis will always switch off also in case of a defective relay, which sticks in the ON position.
  This will be detected, and the 2nd relay is also switched ON in this situation. It is also detected, if the defective relay falls back from ON to OFF.
  The 2nd relay will also switch OFF in this case.

v2.30 (250527)	**14.10.25**	**Improvements (continued)**
		Improvements in the robustness of the software update process • The software update process has been improved with respect to robustness and a better error handling • The improvement concern mainly the software update of connected smart&easy Control Modules

Version	**Release Date**	
v2.20 (250527)	**27.05.25**	**New Features**
		• New language Polish • New default set for Poland (identical with default set “Europe”, but with Polish default names for switching functions)
		Improvements
		• Improvements in the production test software • Increased default for ‘normal’ dosing in Italian default set from 100% to 150% (same values as in French default set)
		Solved issues
		• In the previous software versions v2.xx there was an issue with the initial Web portal connection after a “Reset to regional standard settings”. The initial Web portal connection failed and it was necessary to restart the device (power off and on) to get the device connected. This issue is critical, because in the commissioning wizard, typically a “Reset to regional standard settings” is done and afterwards the Web portal is connected. The connection failed in this situation. This issue has been solved. • In the previous software versions v2.xx, in the commission wizard it was necessary to click “Refresh list of WiFi networks” to show the WiFi list. This issue has been solved and the WiFi list is now shown immediately without clicking “Refresh list of WiFi networks”. • There was a 5s gap in the blocking of the heating between the return of the flow signal and the beginning of the start delay. This has been fixed. The heating is now continuously blocked until the end of the start delay.

Version	Release Date	
v2.10 (240812)	**12.08.24**	**Solved issues**
		• Support of WiFi passwords with up to 63 characters. This is the maximum allowed in the WPA specification. • In previous software versions, you could enter only 10 digits for IP addresses in case of a manual IP configuration (DHCP OFF), which usually is not sufficient. This has been fixed. • In previous software versions, it could happen that an instable Control Module connection was displayed, when the Automatic device tried to reconnect to the customer WiFi network. This has been fixed.
		Other improvements
		• In previous software versions, the WiFi connection process was stopped in case of some specific error situations. To make the connection process more robust, it will never be stopped in the new software release. • The robustness of the storage of system data (e.g. device serial number and hardware revision) has been improved to prevent potential loss of this data.

Version	Release Date	
v2.04 (240711)	**11.07.24**	**Improvements**
		• A function to re-enter the device serial number has been added in Service menu > Special functions. This allows to “repair” devices, which have lost their serial number due to an error.

Version	Release Date	
v2.03 (240618)	**18.06.24**	**Solved issues**
		• In the previous software versions v2.00, v2.01 and v2.02, WiFi connections failed, when the SSID name and/or the password contained one (or more) of the following characters: **, ” ** This has been fixed.

Version	Release Date	
v2.02 (240603)	**03.06.24**	**Improvements**
		• Added some control mechanisms to detect and automatically repair potential communication issues (for Web portal communication and communication with the smart&easy Control Module)
		Solved issues
		• Solved an issue with production end test (concerns Automatic pH devices only, not relevant for end users)

Version	Release Date	
v2.01 (240322)	**22.03.24**	**Improvements**

		• Time controlled operating mode for switching functions is now called “Auto” for all languages (instead of Clock / Zeit / Horloge / Temporiz. / Ora)
		• Corrected some illegal characters in the Italian translation
		• Improved control of the outputs in case of short losses of connection.
		  • Outputs will switch OFF only after a loss of connection for at least 10s.
		  • Short losses of connection will have no effect and the outputs will stay in their current state.

Version	Release Date	
v2.00 (240319)	**19.03.24**	**New Features**
		• **Support for the smart&easy Control module and switching functions**

Version	Release Date	
v1.70 (240228)	**28.02.24**	**Solved issues**
		• Automatic ^{SALT} only: In software versions v1.60 and v1.65 there was a mistake in the calculation of the display value of the salt level (g/l). The displayed value could be too high (but still within the tolerance accepted during end test, which is max. 4,0g/l at a level of 3,5g/l). v1.70 solves this issue and makes sure that the displayed salt level is correct. If the user has already calibrated the displayed salt value in v1.60 or v1.65, the new version v1.70 makes sure that the calibrated value will remain unchanged after the software update. If the user has not yet calibrated the salt level in v1.60 or v1.65, the display will be correct after the update. In most cases, it will be a little bit lower than before.

Version	Release Date	
v1.65 (231210)	**10.12.23**	**New Features**
		• Support of pumps 6l/h (in addition to the existing pumps 3l/h)

Version	Release Date	
v1.60 (230906)	**06.09.23**	**Improvements**

		• The device IP configuration (IP address etc.) is now displayed correctly in the WiFi menu
		• When “Initiate new registration of the controller” is ticked in the Web portal, the device now does the new registration automatically.
		In previous software versions, it was necessary to start the new registration manually.
		• Adjusted the limit for the gas alarm a little bit to make sure that the gas alarm gets active
		even if there is some water with high levels of salt remaining between the titanium pins.
		  • The limits for the gas alarm are now also displayed in the factory menu > factory settings together
		  with the current voltage reading of the conductivity measurement, which is used for the gas alarm detection
		• Added a supervision mechanism for the long-term timers for boost mode and paused mode.
		While these modes are active, the new mechanism continuously checks that the timers are running as expected and restarts them if necessary.
		• Added ":" to the keyboard for password input (press shift => "." changes to ":")

		Solved issues
		• Workaround to get the ESP32 WiFi module out of a blocked state, which occurred in some situations and resulted in Web portal connection problems and “MQTT connection failed” status messages

Version	Release Date	
v1.53 (230524)	**24.05.23**	**Improvements**
		• Some corrections in the menu text
		Solved issues
		• Solves an issue with a failing Web portal device registration in the previous version v1.52 (message „MQTT connection failed“ is displayed on the device)

Version	Release Date	
v1.52 (230508)	**08.05.23**	**Improvements**
		• When you switch automatic control for pH, SE or redox OFF, a confirmation popup appears. In previous software versions, when you did not use the “Confirm” or “Cancel” buttons, but closed the popup with “x” in the left top, automatic control was switched OFF, although this has not been confirmed by the user. In the new software version v1.52, automatic control now remains active in this situation
		Solved issues
		• Fixed the following issue from the software versions v1.50 and v1.51: When we were in the summer time period, and the device is switched off and on again, the clock time was every time set back by one hour at power on. This resulted in a wrong system clock time in the display and for the event log entries.

Version	Release Date	
v1.51 (230331)	**31.03.23**	**Improvements**
		• Improvements in the Italian translations.

Version	Release Date	
v1.50 (230330)	**30.03.23**	**New Features**
		• New language Italian
		Improvements
		• Automatic SALT only: Changed standard setting for reaction in case of a redox monitoring error from “stop production” to “continue production”. For safety reasons, a warning advice is shown, if the customer continues with the new standard setting “continue production”. • The data in the WiFi list sent from the WiFi module has been reduced in order to prevent buffer overflows, if the WiFi list is extremely long. Now even WiFi lists with 50-60 networks should not cause any issues. • Extensive optimisation of web portal communication. The goal was to further reduce the amount of data sent to the web portal and thus the load on the web portal server. This is important to ensure that the web portal is not overloaded in the future when thousands more devices are online.
		Solved issues
		• RTC module (real-time clock) and summer/winter time changeover revised and tested. In previous software versions there were sometimes errors with the automatic changeover to winter time. These have been fixed.

Version	Release Date	

v1.40 (220715)	**15.07.22**	**Solved issues**
		• In the previous software versions till v1.30, WiFi connections failed, when the SSID name and/or the password contained one (or more) of the following characters: **, ” ** This has been fixed.

Version	**Release Date**	
v1.30 (220520)	**20.05.22**	**Improvements**
		• Automatic SALT only: There was no warning message (popup), when the parameter „Approximation for redox monitoring“ was set to zero. A warning message will now be shown in this situation.
		Solved issues
		• Automatic SALT only: The Boost mode could not be started with a duration of 72 hours. There was a bug in the conversion of the 72 hours setting to minutes. This has been fixed.

Version	**Release Date**	
v1.20 (220426)	**26.04.22**	**Improvements**
		• Maximum duration of the salt electrolysis test production cycle limited to 60s (previously 3.600s) • Constant mode only: No stopping of time-limited production at high redox values

Version	**Release Date**	
v1.10 (220420)	**20.04.22**	**Improvements**
		• Improved reliability of ESP32 software update

Version	**Release Date**	
v1.00 (220413)	**13.04.22**	**Initial version**