

1 Purpose

This document describes the fixed bugs and problems as well as the improvements for the new firmware version 5.900.0011 compared to the firmware version 5.900.0010.

2 Improvements

- A new printer driver for Epson printers has been added.
- A method template for the electrode test (ELT) has been added.
- In the device manager, the Java version and the operating system are displayed.
- The limit values for the offset potential for gel electrodes and nonaqueous electrodes have been adjusted to the currently used limit values.
- A new test tool has been added to the GLP manager: 868 UR Generator.
- In the command **MEAS Cond**, the selection parameter for the temperature compensation has changed from **DIN 38404** to **ISO / DIN**.
- If an error occurs during an electrode test, then the old electrode test data will be deleted on the chip and in the configuration.

3 Fixed bugs and problems

- The statistics could be activated and deactivated in the live parameters.
- In a statistical series, result variables (R1...R9) could be entered as number of determinations.
- The keys **[Esc]** and **[Enter]** did not work if a keyboard had been connected.
- If a Titrando has been connected while the Touch Control was switched on, then the firmware version of the Titrando was not tested.
- Metrohm templates were missing from the subsequence command.
- Screenshots in PDF format could not be correctly created (using the fixed key **[Print screenshot]** and the **[Print screenshot]** button).
- Unicode based texts (e.g. asiatic character sets) in the method were not saved correctly and could not be displayed correctly after loading.
- Operation with login and password: if the Touch Control was newly switched on, it was possible to log in without password by tapping on the **Password** input field. However, only if one tapped on the input field within 2 seconds after the login dialog was displayed and then waited a short time.

- The last user with administrator rights could define himself as a user with routine dialog.
- The Touch Control could crash if lines were deleted from the result table during a running determination.
- Problems during dosing occurred while doing manual titrations (MAT) using a 50 mL dosing unit.
- If during a running determination a CALC command was deleted whose result was supposed to be written into the statistics, then the PC/LIMS report for the next determination could not be saved.
- Titration modes with conditioning (SET, KFT, KFC, BRC): if the temperature measurement has been set to **continuous**, then the error message **004-124 Temperature sensor not found** has been displayed.
- ELT determination: if the ELT command has been prematurely canceled and if, according to the report command, a curve was supposed to be printed, then the Touch Control could crash during report printing.
- The result of an electrode test was lost after a single calibration run of the electrode.
- Electrode test: If a GLP interval had expired, a new electrode test could not be performed. The error message **019-133 GLP test interval expired** was displayed.
- Routine dialog settings section **Active buttons in the manual control**: the button for conditioning was misleadingly labeled with "manual titration".
- Titration mode MAT with measuring mode pH: the parameter for the temperature measurement was missing in the sensor settings.
- File name for the PC/LIMS report: if an ID containing the character "/" has been defined as file name, then a wrong error message has been displayed.
- A Remote Box connected to a sample changer has not been displayed in the device manager under **Control Remote Box**.
- When saving a PC/LIMS report, the file name consisted only of the date and time, the text "PC_LIMS_Report" was missing.

4 Compliance

The current firmware version does not contain any modifications that affect conformity of the 900 Touch Control regarding 21 CFR Part 11 and GAMP.

Herisau, 21 October, 2011



Dr. J. Kleimann
Vice President, Head of R&D



U. Kürsteiner
Head of Quality Management