

















for users regarding software updates (following the NAMUR recommendation 53)

# 1 Type of device

□ Field device / signal processing detection   Signal pro	levice
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☐ Monitoring- / operation system / hand held terminal etc.

☐ Modem / interface

Manufacturer : Endress+Hauser

Device : Liquistation

Type : CSF48, CSF34

Previous software : 1.03.01

version

How can the previous software version number be identified:

(a) With standard Fieldbus communication

(b) with FieldCare/DTM

(c) Display

## 2 Software

New software version : 1.04.00

Description of the modification in comparison with the predecessor version:

#### Samper - New Features, Enhancements & Improvements

- Start screen with direct link to edit the sampling program
- After power reset the sampling program continues
- Inline sampler with sampling volues 10 ml ... 1 l
   All other sampler: minimal volume 20 ml
- Sup-program active selectable for binary output or relay
- Optimized sampling volume for vacuum sampling with capacitive media detection
- Bottle change according edited time interval allow empty bottles now
- Bottle change according time zone configuration

### **New Features/Modules:**

- New extension module: 2x digital input & 2x digital output ("DIO") featuring:
- Input: Measuring range switch for conductivity
- Input: External Hold
- Input: triggering of a cleaning cycle via an external signal
- Input: PID-controller enable/disable e.g. via CCA250-Proximity switch
- Input: usable as "analog input" for Pulse Frequency Modulated (PFM) input signals
- Output: static, usable comparable to a relay, e.g. for signalizing diagnostic states, limit switches, etc.
- Output: dynamic, usable comparable to a wearless "analog output" with Pulse Frequency Modulated (PFM) signals (e.g. for dosing pump control)
- Status of Relays, digital inputs and digital outputs can be displayed also in user definable





















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#### measurements screens

- Key lock (by long pressing the Navigator) with optional password protection
- The printing of the device configuration via FieldCare is optimized
- PID-Controller: now supports also disturbance feed forward control allowing e.g. flow proportional dosing via 0/4..20mA, digital fieldbus or the new digital inputs.
- Mathematics: pH out of conductivity value is now also calculable basing on LiOH (according the new "VBG Powertech group guideline" for the power & energy industry)

#### **Enhancements & Improvements:**

- For Configuration with Siemens Simatic the higher slot numbers were moved to slot numbers lower than 34
- Offset Icon Harmonization across all parameters to not display the offset icon anymore Note: Offset Icon will only be displayed at pH and ORP
- Human Machine Interface (HMI): Translation of all new menu items (including the items of the release 3a) into all available languages

### ISE: New Features, Enhancements & Improvements

- Re-arranged and simplified calibration menu implemented
- Calibration of any two parameters in one sequence is possible (except pH/temperature)
- Slot numbers in the menus are replaced by parameter name
- A user defined ISE type can be chosen
- At the end of the standard addition the concentration of the original sample is displayed.

#### pH/ ORP: New Features, Enhancements & Improvements

- Support of CPSx6 combined pH/ORP electrodes
- Icon for automatic, manual or medium compensation (ATC/ MTC/ MED) same as with conductivity are available

# **Conductivity: New Features, Enhancements & Improvements**

- The raw value in resistivity mode at the unit "μS" is available with three decimal places
- Extension of ISO Temperature compensation table by "Water ISO7888 (20°C)"
- Integration of new & enhancing existing concentration tables

#### Dissolved Oxygen: New Features, Enhancements & Improvements

- All units now available with three decimal places (e.g. 0.003 mg/l)
- A warning message for zero current now also for negative values (before: just+1nA, now: +/-1nA)
- After successful calibration the new slope and in addition the used calibration pressure value is now shown. User can now cross check if the calibration pressure of the extended setup/calibration setting is used.

## Turbidity, Nitrate, SAC: New Features, Enhancements & Improvements

- Turbidity: auto ranging can be switched on or off. In the Off-mode, the units mg/l or g/l
- or % can be chosen. In the On-mode, the system selects the units mg/l or g/l automatically.
- Turbidity, SAC, Nitrate: A Dataset can be saved also after editing its name
- Turbidity, SAC, Nitrate: When copying datasets, it is now indicated what will be used as source and as target.
- Turbidity, SAC, Nitrate: Values for Offsets can now be entered for a wide range. The range is





















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	not defined anymore by the sensor.							
3	Compatibility							
	Is the operating	tool comp	atible with the insta	lled device software?				
	<ul><li>☐ Yes</li><li>☒ No, descripti</li></ul>	on:						
	Remark: The PROFIBUS-GSD file is fully compatible. For device configuration a new EDD file or a new DTM are necessary.							
	Is a software update generally recommended?							
	☐ Yes, reason:							
	The software update can be performed by means of  • SD card							
	No, reason:     ■ No.							
	Update only necessary if functional enhancements are desired							
4	4 Instruction manual							
	Is a new instruction manual necessary due to the modification of the software?							
	☐ Yes							
	⊠ No							
	Which manual corresponds to the new software:							
	Device	•	ication options	Manual Marking				
	CSF48, CSF34	All	BA00443CDE.pdf	Liquistation Commissioning				
	· <b>-,</b> ·		BA00463CDE.pdf	Liquistation Maintenance & Diagnostics				
			BA00464CDE.pdf	Liquistation Operation & Setting				

The new instruction manuals can be referred in Internet:

BA00467CDE.pdf

http://www.endress.com - area "DOWNLOAD"

- declaration of the device and kind of manual

Liquistation Calibration





















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Change in price of	f device in	comparison	with the	predecessor	version?

	Yes, new list price and update costs (without installation) are enclose	ed
$\boxtimes$	No	