Manufacturer Information

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

1   Type of device

☒ Field device / signal processing device
☐ Monitoring- / operation system / hand held terminal etc.

Manufacturer	: Endress+Hauser	
Device	: Liquiline	
Type	: CM44x	

Fieldbus / Interface	: Fieldbus HART	Device Type 0x119C

2   Firmware, Hardware I

☒ Firmware
☐ Hardware I

Old firmware version	: 1.05.01
New firmware version	: 1.05.02

How can the previous Firmware / Hardware I version number be identified:

Standard Fieldbus communication, FieldCare/DTM, Display
Description of the modification in comparison with the predecessor version:

- New language Vietnamese
- Activation of service mode by dip switch for fixed IP address
- Simple SAC zero point correction implemented
- Integration of CLS82D / 4 pole conductivity sensors
- Integration of COS81D / oxygen sensors
- Entry of correction factor for CUS51D calibration
- Integration of new Ethernet board for simultaneous operation with 6 current outputs
- Flash frequency adjustable for nitrate and SAC for clear water applications
- Field Data Manager Software - online connection implemented
- New process value UVT 10 mm for UV disinfection applications
- Sensor input with HOLD multi-select for multiple cleaning programs
- Conductivity concentration tables editable in % or mg/l
- Simultaneous measurement of conductivity and concentration
- New conductivity concentration table NaOH 25% - 50%
- Menu 'System test' and 'Reset' split into two menus

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3   Compatibility (Firmware, Hardware I)

Is the new Firmware version compatible with the previous version, the installed device drivers, the operating tool compatible / is the new Harware I version compatible with the previous version?

☒ Yes
☐ No, description:

Is a Firmware / Hardware I update generally recommended?

☐ Yes, reason:

The update / exchange can be performed by means of …
• SD card

☒ No, reason:

Update only necessary, if function enhancements are desired.

4   Instruction manual

Is a new instruction manual necessary due to the modification of the software?

☒ Yes
☐ No

Which manual corresponds to the new firmware and/or hardware I:

CM44x	All	BA00444CEN.pdf	Operating instruction Liquiline
		BA01245CEN.pdf	Operating instruction Memosens

The new instruction manuals can be referred in Internet:
http://www.endress.com   - area „DOWNLOAD"
                                         - declaration of the device and kind of manual

5   Price

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

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☐ Yes, new list price and update costs (without installation) are enclosed
☒ No

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