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.
☐ Modem / interface

Manufacturer	: Endress+Hauser Conducta GmbH+Co
Device	: Liquiline
Type	: CM442
Previous software version	: 1.02.01

How can the previous software version number be identified:

(a) with Standard HART Command #0

(b) with Fieldcare/DTM

(c) local operation display

2 Firmware/Software

New firm-/software version   : 1.02.02

Description of the modification in comparison with the predecessor version:

Functional improvements:

general:
- Parameter up/download via service DTM
- Current output calibration via HART possible

ultrasonic interface level
- Optimized sensor start up time (max 4 min.)
- Linear gain with automatic gain control
- Improved display of lineplotter according tank configuration
- Parameter 'sensitivity' editable

ISE
- Improved calibration and standard addition
- Improved display of pH-measurement

conductivity
- Corrected alpha ref. Temperature

pH-ISFET
Corrected temperature over-compensation

3 Compatibility

Is the newly installed firmware/software compatible with the operating tools?

☒ Yes

Endress+Hauser

People for Process Automation

Manufacturer Information

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

☐ No, description:

Is a firm/software update generally recommended?

☐ Yes, reasons:

The firm-/software update can be performed by means of …

SC-card

☒ No, reasons:

Update only necessary if functional enhancements are desired

4 Instruction manual

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

☒ Yes
☐ No

Which manual corresponds to the new firm-/software:

Device	Communication options	Manual	Marking

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?

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

Endress+Hauser

People for Process Automation