

# Manufacturer Information

for users regarding software- and hardware changes (According to NAMUR-Recommendation 53)

## 1 Type of device

- $\boxtimes$  Field device / signal processing device
- □ Monitoring-/ operation system

Manufacturer	:	Endress+Hauser	
Device	:	Liquiline CM42 dissolved oxygen	
Part number/Order code	:	CM42	
Fieldbus / Interface	:	Fieldbus HART	Device Type 0x11A2
		Profibus PA	0x1567
		FOUNDATION fieldbus	0x10A2

## 2 Firmware, Hardware I

$\boxtimes$	Firmware
	Hardware I

Previous Version	:	02.04.01
New Version	:	02.04.02

How the current firmware and/or hardware I version number can be detected:

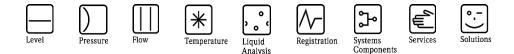
Standard Fieldbus communication, FieldCare/DTM, Display

Description of the modification in comparison with the predecessor version:

Functional improvements:

- All tau values for optical oxygen sensors will be displayed with a precision of three decimal places within the "DIAG" menu.
- More robust FOUNDATION fieldbus communication implemented. Abnormal situations are detected and solved.
- More robust HART communication implemented. Current distortion sensitivity has been adjusted to avoid spikes on the current output.
- The number of device restarts is now displayed under Diag/Device information/CPU/Number of restarts. A factory default will reset the counter.





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## 3 Compatibility (Firmware, Hardware I)

Is the new firmware version compatible with the previous version, the installed device software drivers, or service tools and/or is the new hardware I version compatible with the previous hardware I version?

🛛 Yes

□ No, description:

Is a firmware update and/or the exchange of hardware I components generally recommended?

□ Yes, reason:

The update/exchange can be performed as follows:

- Exchange of printed circuit boards: I/O- and measuring amplifier. (This procedure is described in the operating instructions of the measuring system).
- Flashing the new soft-/ firmware .
- $\boxtimes$  No, Reason:

Update only necessary, if function enhancements are desired.

## 4 Operating Instruction

Is a new operating instruction necessary due to the modification due to section 2?

🗆 Yes

🛛 No

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

A new operation instruction corresponding to the device configuration can be requested at the following URL:

http://www.endress.com/en/pages/liquiline-cm42-operating-instructions-documentation

## 5 Price

Does the price of the device change compared to its predecessor version?

☐ Yes, new price list and updated costs (without installation) are attached
☑ No

