



# Manufacturer Information

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

## 1 Type of device

- Field device / signal processing device
- Monitoring-/ operation system

Manufacturer : Endress+Hauser  
 Device : Liquiline CM42 dissolved oxygen  
 Part number/Order code : CM42

Fieldbus / Interface	:	Fieldbus	Device Type
	:	HART	0x11A2
	:	Profibus PA	0x1567
	:	FOUNDATION fieldbus	0x10A2

## 2 Firmware, Hardware I

- 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 .

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