



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



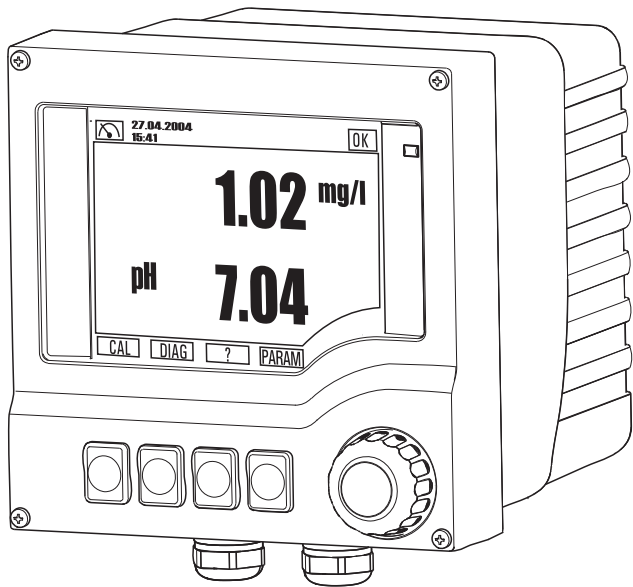
Solutions

Operating Instructions

Liquiline M CM330

Four-wire transmitter for two-channel measurement of pH value and disinfection parameters with digital sensors

Part 1: Commissioning



Overview of documentation supplied

Operating Instructions

The Operating Instructions are split into two parts:

- **Commissioning**
 - Description of your device
 - All steps that you have to carry out **once only** during initial commissioning
- **Operation**
 - Software description
 - Troubleshooting
 - All steps that you have to carry out during the **routine operation** of your device, depending on your measuring task



Note!

This part of the Operating Instructions is the documentation on **commissioning**.

CD-ROM

Contents:

- Fundamentals of pH and conductivity measurement, fieldbuses
- Overview of analytical measuring technology
- Accessories
- Tables
- Applications
- Safety
- Ordering information

In addition

- Adhesive labels:
 - Replacement nameplate
 - Wiring adhesive label

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1 Safety instructions

1.1 Designated use

Liquiline M CM330 is a four-wire transmitter for simultaneous measurement of pH value and free chlorine with Memosens technology in non-hazardous environment.

The transmitter is suitable for pollution degree 3.

If the device is used for any purpose other than that described, this poses a threat to the safety of people and the entire measuring system and is thus not permitted.

The manufacturer does not accept liability for damage caused by improper or non-designated use.

1.2 Incoming acceptance, transport, storage

- Make sure the packaging is not damaged!
Inform your supplier of any damage to the packaging.
Please keep the damaged packaging until any issues have been resolved.
- Make sure the contents are not damaged!
Inform your supplier of any damage to the contents.
Please keep the damaged goods until any issues have been resolved.
- Check the scope of delivery against the delivery papers and your order to ensure it is complete and nothing is missing.
- Pack the device in such a way as to protect it reliably against impact and moisture for storage and transportation. Optimum protection is provided by the original packaging materials. In addition, the permitted ambient conditions must be observed (see Technical data).
- If you have any queries, please contact your supplier or local sales center.

1.3 Installation, commissioning and operation

Observe the following points:

- Installation, commissioning, operation and maintenance of the measuring system must only be carried out by trained technical personnel.
The technical personnel must be authorized to perform the tasks by the owner-operator.
- The electrical connection may only be established by an electrical technician.
- The technical personnel must have read and understood these Operating Instructions and must follow the instructions they contain.
- Prior to commissioning the entire measuring point, check that all connections are correct.
Make sure that electric cables and hose connections are not damaged.
- Do not commission damaged products. Protect them against unintentional start-up. Label and identify the damaged product as defective.
- Faults at the measuring point may only be rectified by authorized and properly trained personnel.
- If the faults cannot be eliminated, take the products out of service and protect them against unintentional start-up.
- Repairs not described in these Operating Instructions may only be carried out directly at the manufacturer's or by the Service Organization.

1.4 Operational safety

The product is designed to meet state-of-the-art safety requirements, has been tested and left the factory in a condition in which it is safe to operate. Relevant regulations and European standards have been observed.

As the user, you are responsible for observing the following safety regulations:

- Installation guidelines
- Local standards and regulations

1.5 Return

If returning the transmitter, please send it *cleaned* to your sales center.
Use the original packaging when returning the device.

1.6 Notes on safety conventions and icons

1.6.1 Warnings



Warning!

This symbol alerts you to dangers.

If the warning is not observed, this can result in serious injury to people or damage to property.



Caution!

This symbol alerts you to possible malfunctions resulting from incorrect operation. If not observed, this could result in damage to property.



Note!

This symbol indicates important items of information.

1.6.2 Document symbols

→  1 This symbol stands for a cross-reference to a certain page (e.g. Page 1).

→  2 This symbol stands for a cross-reference to a certain graphic (e.g. Fig. 2).

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