

# 1-/2-channel transmitter Liquiline CM442

## Expandable multiparameter field device for all industries



Lisätietoja ja ajankohtainen hinnasto:

[www.fi.endress.com/CM442](http://www.fi.endress.com/CM442)

### Edut:

- **Clever simplicity:**  
One controller for all parameters and applications, intuitive user interface, automatic sensor recognition, hot plug & play with pre-calibrated Memosens sensors.
- **High flexibility:**  
Universal modules for all parameters minimize spare part stock and allow for easy extension to up to 8 channels at any time.
- **Seamless system integration:**  
Unique portfolio of communication standards suits every distributed control system (DCS).
- **Simple and safe commissioning:**  
Saving configuration on SD card enables fast set-up on duplicate installations.
- **Process control from a distance:**  
Integrated web server that allows the operator to remotely view diagnostic data, perform configurations, or access device parameters in any web browser - even via Smartphone.
- **Higher availability, lower costs:**  
Heartbeat Technology enables status-oriented maintenance and easy verification of the entire measuring point and helps to carry out optimization measures.

### Tärkeimmät tekniset tiedot

- **Input** 1 to 2x Memosens digital input
- **Output / communication** 2 to 8x 0/4 to 20 mA current outputs  
Alarmrelay, 2x relay
- **Ingress protection** IP66 / IP67

**Käyttöalue:** The Liquiline CM442 transmitter allows you to connect up to 2 Memosens sensors of your choice from over 12 measurement parameters. It offers automatic sensor recognition, easy operation, and standardized spare parts with all other devices of the Liquiline platform. With its inputs, outputs, controllers, and math modules, you can even control cleaning systems or dosing pumps. Heartbeat Technology helps you find the ideal balance between measuring point availability and maintenance costs.

## Ominaisuudet ja tiedot

### ORP / Redox

#### Mittausperiaate

Sensor ORP / Redox

#### Application

Modular 4 wire controller

Multichannel: 1/2 digital channels for Memosens protocol

Multiparameter: pH, redox, ISFET, conductivity inductive and conductive, dissolved oxygen, nitrate and turbidity

Two sensors connectable in any combination

Functionality modular extendable at any time

Plug and play for modules and sensors

#### Characteristic

Robust plastic housing

All non-ex applications

#### Design

2x Memosens input, 2 to 4x current output, Alarmrelay,

2x relay, SD card for software update and copy & paste of setup

#### Material

Housing base: PC-FR

Housing seal: EPDM

## ORP / Redox

**Dimension**

237 x 194 x 162 mm  
9.33 x 7.64 x 7.38 inch

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**Process temperature**

-20 to 60 °C (0 to 140 °F)

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**Ingres protection**

IP66 / IP67

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**Input**

1 to 2x Memosens digital input

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**Output / communication**

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**Additional certifications**

EAC, cCSAus, MCERTS

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## pH

**Mittausperiaate**

Potentiometric

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## pH

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2x relay, SD card for software update and copy & paste of setup

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**Input**

1 to 2x Memosens digital input  
2x 0/4 to 20mA input optional  
2x Digital input optional

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**Output / communication**

2 to 8x 0/4 to 20 mA current outputs  
Alarmrelay, 2x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

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## Conductivity

**Mittausperiaate**

Conductive

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## Conductivity

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**Sludge Level****Mittausperiaate**Ultrasonic sensor

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## Sludge Level

### Input

1 to 2x Memosens digital input  
2x 0/4 to 20mA input optional  
2x Digital input optional

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### Output / communication

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Alarmrelay, 2x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

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## Oxygen

### Mittausperiaate

Amperometric oxygen measurement

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**Analyser****Mittausperiaate**

UV photometric

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## Analyser

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### Output / communication

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Alarmrelay, 2x relay

### Input

1 to 2x Memosens digital input

## Disinfection

### Mittausperiaate

Free chlorine

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## Turbidity

**Mittausperiaate**

Four beam alternating light

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