

# 4-channel transmitter

## Liquiline CM444

### Expandable multiparameter field device for all industries



Mer informasjon og gjeldende priser:

[www.no.endress.com/CM444](http://www.no.endress.com/CM444)

#### Fordeler:

- **Clever simplicity:**  
One controller for all parameters and applications, intuitive user interface, automatic sensor recognition, hot plug & play with pre-calibrated Memosens sensors.
- **Highest flexibility:**  
Universal modules for all parameters minimize spare part stock and allow for easy 1-click 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.

#### Spesifikasjonene kort oppsummert

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

**Output / communication** 2 to 8x 0/4 to 20 mA current outputs, alarmrelay, 4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

- **Ingress protection** IP66 / IP 67

**Bruksområde:** Liquiline CM444 is a digital multiparameter transmitter for process monitoring and controlling in any application. Modules can be added at any time to fit your process. The 4-channel controller saves you time and money by offering seamless system integration, simple operation and a reduced need for spare part stock. Liquiline CM444 provides you with all the benefits of a best-in-class transmitter platform from clever simplicity to maximum process safety.

## Funksjoner og spesifikasjoner

### ORP / Redox

#### Measuring principle

Sensor ORP / Redox

#### Application

Modular 4 wire controller

Multichannel: 1 to 4 digital channels for Memosens protocol

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

4 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

2 to 4x Memosens input, 2 to 8x current output

Alarmrelay, 4x relay, SD card for software update and copy & paste of setup

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**ORP / Redox****Material**

Housing base: PC-FR

Housing seal: EPDM

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**Dimension**

237 x 194 x 162 mm

9.33 x 7.64 x 6.38 inch

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**Process temperature**

-20 to 55 °C (0 to 130 °F)

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**Ingres protection**

IP66 / IP 67

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**Input**

1 to 4x Memosens digital input

2x 0/4 to 20mA Input optional

2 to 4x Digital input optional

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**Output / communication**

2 to 8x 0/4 to 20 mA current outputs, alarmrelay,

4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

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**Additional certifications**

EAC, cCSAus

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**Sludge Level****Measuring principle**

Ultrasonic sensor

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## Sludge Level

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### Characteristic

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### Design

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### Material

Housing base: PC-FR  
Housing seal: EPDM

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### Dimension

237 x 194 x 162 mm  
9.33 x 7.64 x 6.38 inch

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### Process temperature

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### Ingres protection

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### Input

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### Output / communication

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

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## Oxygen

### Measuring principle

Amperometric oxygen measurement

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## Oxygen

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

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Plug and play for modules and sensors

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### Characteristic

Robust plastic housing

All non-ex applications

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Oxygen

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EAC, cCSAus

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pH

**Measuring principle**

Potentiometric

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## pH

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### Input

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

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## Disinfection

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### Measuring principle

Free chlorine

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### Application

Modular 4 wire controller  
Multichannel: 1 to 4 digital channels for Memosens protocol  
Multiparameter: pH, redox, ISFET, conductivity inductive and conductive,  
dissolved oxygen, nitrate and turbidity  
4 sensors connectable in any combination  
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Plug and play for modules and sensors

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### Characteristic

Robust plastic housing  
All non-ex applications

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### Design

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### Material

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Housing seal: EPDM

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**Disinfection****Dimension**

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**Analyser****Measuring principle**

Potentiometric / ISE

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## Analyser

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## Turbidity

### Measuring principle

Single beam scattered light

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## Conductivity

### Measuring principle

Potentiometric

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## Conductivity

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