

# 8-channel transmitter

## Liquiline CM448

Flexible multiparameter field device for all industries



More information and current pricing:

[www.th.endress.com/CM448](http://www.th.endress.com/CM448)

### Benefits:

- **Clever simplicity:**  
One controller for all parameters and applications, intuitive user interface, automatic sensor recognition, hot plug & play with pre-calibrated Memosens sensors.
- **Complete package:**  
8 channels in one device provide the highest flexibility for every measuring task.
- **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.

### Specs at a glance

- **Input** 1 to 8x 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

- **Ingres protection** IP66 / IP67

**Field of application:** Liquiline CM448 is a digital multiparameter transmitter for process monitoring and controlling in any application. The 8-channel controller saves you time and money by offering seamless system integration, simple operation and a reduced need for spare part stock. Adapt the controller exactly to your measuring task and connect 1 to 8 sensors as desired. Liquiline CM448 provides you with all the benefits of a best-in-class transmitter platform from clever simplicity to maximum process safety.

## Features and specifications

### Analyser

#### Measuring principle

Potentiometric / ISE

#### Characteristic

Robust plastic housing  
All non-ex applications

#### Process temperature

-20 to 55 °C (0 to 130 °F)

#### Application

Modular 4 wire controller  
Multichannel: 1 to 8 digital channels for Memosens protocol  
Multiparameter: pH, redox, ISFET, conductivity inductive and conductive, dissolved oxygen, nitrate and turbidity  
8 sensors connectable in any combination  
Functionality modular extendable at any time  
Plug and play for modules and sensors

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## Analyser

**Output / communication**

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

1 to 8x Memosens digital input  
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## Disinfection

**Measuring principle**

Free chlorine

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**Characteristic**

Robust plastic housing  
All non-ex applications

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**Design**

8x Memosens input, 2 to 8x current output,  
Alarmrelay, 2x relay, SD card for software update and copy & paste of setup

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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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## Disinfection

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### Process temperature

-20 to 55 °C (0 to 130 °F)

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### Input

1 to 8x Memosens digital input

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### Output / communication

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

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### Additional certifications

EAC, cCSAus

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## ORP / Redox

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### Measuring principle

Sensor ORP / Redox

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## Oxygen

**Measuring principle**

Amperometric oxygen measurement

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## Turbidity

### Measuring principle

Single beam scattered light

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## Turbidity

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## Conductivity

### Measuring principle

Potentiometric

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## pH

**Measuring principle**

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pH

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