

# 8-channel transmitter Liquiline CM448R

## Flexible multiparameter DIN-rail and cabinet device for all industries



More information and current pricing:

[www.apsc.endress.com/CM448R](http://www.apsc.endress.com/CM448R)

### Benefits:

- **Saves space, saves money:**  
Small footprint, 8 channels in one device, saves space in cabinets – perfect for skids.
- **High-speed installation:**  
No cut-out in cabinet door, one-click DIN-rail mounting, minimized wiring.
- **Simple and safe commissioning:**  
Saving configuration on SD card enables fast set-up on duplicate installations.
- **Easy to operate and service:**  
Intuitive user interface, hot plug & play with pre-calibrated Memosens sensors, universal components fit all parameters.
- **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...8x Memosens digital input 2x 0/4...20mA Input optional 2..4x Digital input optional
- **Output / communication** 2...8x 0/4...20 mA current outputs alarmrelay 4x relay ProfibusDP Modbus RS485 Modbus TCP Ethernet

- **Ingres protection** IP20 transmitter IP66 optional Display

**Field of application:** Liquiline CM448R is a digital multiparameter transmitter for process monitoring and control in all applications - even where mounting space is limited. It saves you time and money through fast and simple system integration, installation, and operation. The 8-channel device can be easily adapted to your process, accommodating 1 to 8 sensors as desired. Liquiline CM448R provides you with all the benefits of a best-in-class transmitter platform from clever simplicity to maximum process safety.

## Features and specifications

### Oxygen

#### Measuring principle

Amperometric oxygen measurement

#### Application

Modular 4 wire controller

Multichannel: 1-8 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

#### Characteristic

Robust plastic housing

All non-ex applications

#### Design

8x Memosens input

2...8x current output

alarmrelay

2x relay

SD card for software update and copy & paste of setup

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## Oxygen

**Material**

Polycarbonate

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**Dimension**

220 (8.66) x 100 (3.94) x 98 (3.86) mm (inch)

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**Process temperature**

-20...55°C / 0...130°F

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**Input**

1...8x Memosens digital input  
2x 0/4..20mA Input optional  
2..4x Digital input optional

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**Output / communication**

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

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## ORP / Redox

**Measuring principle**

Sensor ORP / Redox

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## Conductivity

### Measuring principle

Potentiometric

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## Sludge Level

### Measuring principle

Ultrasonic sensor

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**Sludge Level****Material**Polycarbonate

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**pH****Measuring principle**Potentiometric

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pH

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## pH

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## Disinfection

**Measuring principle**

Total chlorine

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**Turbidity****Measuring principle**

Single beam scattered light

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## Turbidity

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