

# 8-channel transmitter Liquiline CM448R

Flexible multiparameter DIN-rail and cabinet device for all industries



Mais informações e preço atual:

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

## Benefícios:

- **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.

## Especificações resumidas

- **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

**Campo de aplicação:** 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.

## Características e especificações

### ORP / Redox

#### Measuring principle

Sensor ORP / Redox

#### 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

## ORP / Redox

**Material**

Polycarbonate

**Dimension**

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

**Process temperature**

-20...55°C / 0...130°F

**Ingres protection**

IP20 transmitter

IP66 optional Display

**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

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Ethernet

## Conductivity

**Measuring principle**

Potentiometric

## Conductivity

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1...8x Memosens digital input

2x 0/4..20mA Input optional

2..4x Digital input optional

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## Conductivity

### Output / communication

2...8x 0/4...20 mA current outputs  
alarmrelay  
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Ethernet

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## Sludge Level

### Measuring principle

Ultrasonic sensor

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## Disinfection

**Measuring principle**

Total chlorine

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## Disinfection

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## Turbidity

**Measuring principle**

Single beam scattered light

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## Turbidity

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**Turbidity****Output / communication**

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**pH****Measuring principle**

Potentiometric

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## pH

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## Oxygen

**Measuring principle**

Amperometric oxygen measurement

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