

# 4-channel transmitter

## Liquiline CM444R

Expandable multiparameter DIN-rail and cabinet device for all industries



More information and current pricing:

[www.be.endress.com/CM444R](http://www.be.endress.com/CM444R)

### Benefits:

- **Saves space, saves money:**  
Small footprint, 4 channels in one device, expandable at any time, 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 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

- **Ingres protection** Transmitter: IP20 Optional Display: IP66

**Field of application:** Liquiline CM444R allows you to connect up to 4 Memosens sensors of your choice from over 12 measurement parameters. With its compact design, it fits into any cabinet and can be expanded at any time with inputs, outputs, controllers, math modules, and sensor channels. The transmitter belongs to the Liquiline platform with standardized system integration, operation, and spare parts. Heartbeat Technology helps you find the ideal balance between measurement point availability and maintenance costs.

## Features and specifications

pH

### Measuring principle

Potentiometric

### 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

### Material

DIN rail housing: PC-FR

Display seal: EPDM

## pH

**Dimension**

220 x 100 x 97 mm

8.66 x 3.94 x 3.82 inch

**Process temperature**

0 to 55 °C (32 to 130 °F)

**Ingres protection**

Transmitter: IP20

Optional Display: IP66

**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

**Additional certifications**

EAC, cCSAus

## Oxygen

**Measuring principle**

Amperometric oxygen measurement

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## Oxygen

### Characteristic

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### Material

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## Conductivity

### Measuring principle

Conductive

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## Conductivity

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## Disinfection

**Measuring principle**

Total chlorine

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## Sludge Level

**Measuring principle**

Ultrasonic sensor

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## Sludge Level

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## Turbidity

**Measuring principle**

Single beam scattered light



## Turbidity

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## ORP / Redox

### Measuring principle

Sensor ORP / Redox

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