

8-channel transmitter Liquiline CM448R

Flexible multiparameter DIN-rail and cabinet device for all industries



More information and current pricing:

www.de.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 allows you to connect up to 8 Memosens sensors of your choice from over 12 measurement parameters. With its compact design, it fits into any cabinet - and even offers inputs, outputs, controllers, and math modules, e.g. for control of sensor cleaning. 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: 1-8 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

pH

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

Modbus TCP

Ethernet

ORP / Redox

Measuring principle

Sensor ORP / Redox

ORP / Redox

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Input

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2x 0/4..20mA Input optional

2..4x Digital input optional

ORP / Redox**Output / communication**

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

Conductivity**Measuring principle**

Conductive

Application

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Characteristic

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All non-ex applications

Design

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2...8x current output
alarmrelay
2x relay
SD card for software update and copy & paste of setup

Material

Polycarbonate

Conductivity

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2x 0/4...20mA Input optional

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Ethernet

Oxygen

Measuring principle

Amperometric oxygen measurement

Application

Modular 4 wire controller

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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

Oxygen

Characteristic

Robust plastic housing
All non-ex applications

Design

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2...8x current output
alarmrelay
2x relay
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Material

Polycarbonate

Dimension

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Output / communication

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Disinfection

Measuring principle

Total chlorine

Disinfection

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2..4x Digital input optional

Disinfection

Output / communication

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Turbidity

Measuring principle

Single beam scattered light

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Material

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Turbidity**Dimension**

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Output / communication

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alarmrelay

4x relay

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Modbus RS485

Modbus TCP

Ethernet

Sludge Level**Measuring principle**

Ultrasonic sensor

Application

Modular 4 wire controller

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Functionality modular extendable at any time

Plug and play for modules and sensors

Sludge Level

Characteristic

Robust plastic housing
All non-ex applications

Design

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