

8-channel transmitter Liquiline CM448R

Flexible multiparameter DIN-rail and cabinet device for all industries



More information and current pricing:

www.ie.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

Oxygen

Material

Polycarbonate

Dimension

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

Process temperature

-20...55°C / 0...130°F

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

Sludge Level

Measuring principle

Ultrasonic sensor

Application

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Sludge Level

Characteristic

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All non-ex applications

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8x Memosens input
2...8x current output
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Material

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

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Ingres protection

IP20 transmitter
IP66 optional Display

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Turbidity

Measuring principle

Single beam scattered light

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2x relay

SD card for software update and copy & paste of setup

Material

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Dimension

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Process temperature

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Ingres protection

IP20 transmitter

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Turbidity**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
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Ethernet

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
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ORP / Redox

Material

Polycarbonate

Dimension

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4x relay

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Modbus RS485

Modbus TCP

Ethernet

pH

Measuring principle

Potentiometric

pH

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2..4x Digital input optional

pH

Output / communication

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Disinfection

Measuring principle

Total chlorine

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Characteristic

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All non-ex applications

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

Polycarbonate

Disinfection**Dimension**

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

Process temperature

-20...55°C / 0...130°F

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2..4x Digital input optional

Output / communication

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Conductivity**Measuring principle**

Potentiometric

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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

Conductivity

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