

4-channel transmitter

Liquiline CM444R

Expandable multiparameter DIN-rail and cabinet device for all industries



More information and current pricing:

www.jp.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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Plug and play for modules and sensors

Oxygen

Characteristic

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All non-ex applications

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Conductivity

Measuring principle

Conductive

Conductivity

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Conductivity

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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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Display seal: EPDM

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Disinfection

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Sludge Level

Measuring principle

Ultrasonic sensor

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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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