4-channel transmitter Liquiline CM444R

Expandable multiparameter DIN-rail and cabinet device for all industries

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.

 Drive connectivity: Liquiline Edge Module CYY7 transfers process data to Netilion, independently of the fieldbus. This allows remote overview and the use of IIoT services. It's available in new products or as upgrade to installed Liquiline platforms.

Specs at a glance

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More information and current pricing: www.endress.com/CM444R



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
- Ingress 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

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

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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

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)

Ingress protection

Transmitter: IP20 Optional Display: IP66

Input

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Output / communication

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Additional certifications

EAC, cCSAus

ORP / Redox

Measuring principle Sensor ORP / Redox

ORP / Redox

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Conductivity

Measuring principle

Conductive

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Oxygen

Measuring principle

Amperometric oxygen measurement

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Oxygen

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Disinfection

Measuring principle Total chlorine

Disinfection

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Disinfection

Additional certifications EAC, cCSAus

Turbidity

Measuring principle

Single beam scattered light

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Turbidity

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Additional certifications

EAC, cCSAus

Sludge Level

Measuring principle

Ultrasonic sensor

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