

8-channel transmitter

Liquiline CM448

Flexible multiparameter field device for all industries



More information and current pricing:

www.endress.com/CM448

Benefits:

- **Clever simplicity:**
One controller for all parameters and applications, intuitive user interface, automatic sensor recognition, hot plug & play with pre-calibrated Memosens sensors.
- **Complete package:**
8 channels in one device provide the highest flexibility for every measuring task.
- **Seamless system integration:**
Unique portfolio of communication standards suits every distributed control system (DCS).
- **Simple and safe commissioning:**
Saving configuration on SD card enables fast set-up on duplicate installations.
- **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

- **Input** 1 to 8x 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** IP66 / IP67

Field of application: The Liquiline CM448 transmitter allows you to connect up to 8 Memosens sensors of your choice from over 12 measurement parameters. It offers automatic sensor recognition, simple operation, and standardized spare parts with all other devices of the Liquiline platform. With its inputs, outputs, controllers, and math modules, you can even control cleaning systems or dosing pumps. Heartbeat Technology helps you find the ideal balance between measuring point availability and maintenance costs.

Features and specifications

pH

Measuring principle

Potentiometric

Application

Modular 4 wire controller

Multichannel: 1 to 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

pH

Design

8x Memosens input, 2 to 8x current output,
Alarmrelay, 2x relay, SD card for software update and copy & paste of
setup

Material

Housing base: PC-FR
Housing seal EPDM

Dimension

237 x 194 x 162 mm
9.33 x 7.64 x 6.38 inch

Process temperature

-20 to 55 °C (0 to 130 °F)

Ingress protection

IP66 / IP67

Input

1 to 8x 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

Certificates, declarations and approvals

EAC, cCSAus

ORP / Redox

Measuring principle

Sensor ORP / Redox

ORP / Redox

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ORP / Redox**Output / communication**

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Certificates, declarations and approvals

EAC, cCSAus

Conductivity**Measuring principle**

Conductive

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Oxygen

Measuring principle

Amperometric oxygen measurement

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Oxygen

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Certificates, declarations and approvals

EAC, cCSAus

Disinfection

Measuring principle

Free chlorine

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Disinfection

Characteristic

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Housing seal EPDM

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Certificates, declarations and approvals

EAC, cCSAus

Turbidity

Measuring principle

Single beam scattered light

Turbidity

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Certificates, declarations and approvals

EAC, cCSAus

Analyser

Measuring principle

Potentiometric / ISE

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