4-channel transmitter Liquiline CM444

Expandable multiparameter field device for all industries

More information and current pricing:

www.endress.com/CM444

Benefits:

- **Clever simplicity:**
  One controller for all parameters and applications, intuitive user interface, automatic sensor recognition, hot plug & play with pre-calibrated Memosens sensors.

- **Highest flexibility:**
  Universal modules for all parameters minimize spare part stock and allow for easy 1-click extension to up to 8 channels at any time.

- **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.

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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
- **Ingress protection** IP66 / IP 67

Field of application: The Liquiline CM444 transmitter allows you to connect up to 4 Memosens sensors of your choice from over 12 measurement parameters. It offers automatic sensor recognition, flexible expandability, 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 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

pH

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

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 ℃ (0 to 130 ℉)

Ingress protection

IP66 / IP 67

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

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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All non-ex applications

Oxygen

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Disinfection

Measuring principle

Free chlorine

Disinfection

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Disinfection

Additional certifications

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Turbidity

Measuring principle

Single beam scattered light

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Turbidity

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Sludge Level

Measuring principle

Ultrasonic sensor

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Sludge Level

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Analyser

Measuring principle
Potentiometric / ISE

Characteristic
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Analyser

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