8-channel transmitter Liquiline CM448

Flexible multiparameter field device for all industries

FLEX

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.

Specs at a glance

- **Input** 1 to 8x Memosens digital input 2x 0/4 to 20mA Input optional 2 to 4x Digital input optional

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Endress+Hauser [EH]

> **Output / communication** 2 to 8x 0/4 to 20 mA current outputs, alarmrelay 4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet
> - **Ingres protection** IP66 / IP67

Field of application: Liquiline CM448 is a digital multiparameter transmitter for process monitoring and controlling in any application. The 8-channel controller saves you time and money by offering seamless system integration, simple operation and a reduced need for spare part stock. Adapt the controller exactly to your measuring task and connect 1 to 8 sensors as desired. Liquiline CM448 provides you with all the benefits of a best-in-class transmitter platform from clever simplicity to maximum process safety.

Features and specifications

Conductivity

Measuring principle

Conductive

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

Design

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

Conductivity

Material
Housing base: PC-FR
Housing seal EPDM

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

Ingres 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

Additional certifications
EAC, cCSAus

ORP / Redox

Measuring principle
Sensor ORP / Redox

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Housing seal EPDM

Dimension
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Process temperature
-20 to 55 ℃ (0 to 130 ℉)

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IP66 / IP67

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Disinfection

Measuring principle
Free chlorine

Disinfection

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Disinfection

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Analyser

Measuring principle

Potentiometric / ISE

Characteristic

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Oxygen

Measuring principle

Amperometric oxygen measurement

Oxygen

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Oxygen

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pH

Measuring principle

Potentiometric

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pH

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Turbidity

Measuring principle
Single beam scattered light

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