1-/2-channel transmitter Liquiline CM442

Expandable multiparameter field device for all industries



More information and current pricing: www.ca.endress.com/CM442

Benefits:

Clever simplicity:

One controller for all parameters and applications, intuitive user interface, automatic sensor recognition, hot plug & play with precalibrated Memosens sensors.

High flexibility:

Universal modules for all parameters minimize spare part stock and allow for easy 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.

Specs at a glance

• Input 1 to 2x Memosens digital input 2x 0/4 to 20mA input optional 2x Digital input optional

Output / communication 2 to 8x 0/4 to 20 mA current outputs Alarmrelay, 2x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

Ingres protection IP66 / IP67

Field of application: Liquiline CM442 is a digital multiparameter transmitter for process monitoring and controlling in any application. The 1-/2-channel controller saves you time and money by offering seamless system integration, simple operation and a reduced need for spare part stock. Liquiline CM442 provides you with all the benefits of a best-inclass transmitter platform from clever simplicity to maximum process safety.

Features and specifications

Sludge Level

Measuring principle

Ultrasonic sensor

Application

Modular 4 wire controller

Multichannel: 1/2 digital channels for Memosens protocol

Multiparameter: pH, redox, ISFET, conductivity inductive and conductive,

dissolved oxygen, nitrate and turbidity

Two 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

2x Memosens input, 2 to 4x current output, Alarmrelay 2x relay, SD card for software update and copy & paste of setup

Sludge Level

Material

Housing base: PC-FR Housing seal: EPDM

Dimension

237 x 194 x 162 mm 9.33 x 7.64 x 7.38 inch

Process temperature

-20 to 60 °C (0 to 140 °F)

Ingres protection

IP66 / IP67

Input

1 to 2x Memosens digital input 2x 0/4 to 20mA input optional 2x Digital input optional

Output / communication

2 to 8x 0/4 to 20 mA current outputs Alarmrelay, 2x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

Additional certifications

EAC, cCSAus, MCERTS

ORP / Redox

Measuring principle

Sensor ORP / Redox

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Analyser

Measuring principle

UV photometric

Analyser

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 $\label{eq:multiparameter:ph,redox,ISFET, conductivity inductive and conductive,} \\$

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Output / communication

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Input

1 to 2x Memosens digital input

Oxygen

Measuring principle

Amperometric oxygen measurement

Oxygen

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Oxygen

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Disinfection

Measuring principle

Free chlorine

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Disinfection

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Measuring principle

Potentiometric

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Turbidity

Measuring principle

Four beam alternating light

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Conductivity

Measuring principle

Potentiometric

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