

1-channel transmitter

Liquiline CM42B

Two-wire field device for hazardous and non-hazardous areas and hygienic applications in chemical, life sciences and food & beverage industries



More information and current pricing:

www.endress.com/CM42B

Benefits:

- **Comfortable operation and configuration:** The intuitive operating concept makes commissioning and configuration on-site easy and fast. Bluetooth connection and the SmartBlue app provide an overview of the measuring point on your smartphone or tablet.
- **Unique security:** The Bluetooth connection features a unique security concept that prevents intrusion and enables sophisticated role management of the operating staff. You profit from external and internal security.
- **Suitable for all process environments:** The transmitter is available as stainless steel, plastic or DIN-rail version. Simply select the suitable version to integrate it into a skid, use it in hygienic environments or apply it in hazardous areas.
- **Increased process safety and uptime:** Memosens technology provides you with safe, digital data transmission and high availability of measured values. Plug & play of pre-calibrated sensors reduces process downtime for calibration.
- **Seamless system integration:** Liquiline CM42B offers HCF-certified HART communication which makes integration into your process control system easy and secure.

Specs at a glance

- **Input** One channel transmitter for Memosens and analog (pH, ORP, conductivity)
-

Output / communication 4 to 20 mA, HART (optional), additional second output possible; HART communication, also later activatable

- **Ingress protection** Field housing: IP66/67 (IEC 60529) NEMA 4X (UL 50E) DIN-rail housing: IP20

Field of application: Liquiline CM42B provides precise and reliable measurement of pH, ORP, conductivity or oxygen in demanding process applications. Benefit from its intuitive local operation and configuration and use its Bluetooth interface and the SmartBlue app to get a detailed measuring point overview on your mobile devices. The Bluetooth communication is secured by a unique concept. No need to worry about intruders. Different device versions allow for flexible adaptation to all installation requirements.

Features and specifications

pH

Measuring principle

Potentiometric

Application

Chemical processes, pharmaceuticals industry, food and beverage technology, applications in hazardous areas

Characteristic

Liquiline CM42B is a modular two-wire transmitter for all areas of process engineering

Measuring principle

Memosens und analog Parameter; DIN-rail device Memosens only

Design

Depending on the ordered version, Liquiline CM42B has one or two analog current outputs or it can be connected to fieldbus with HART protocol

pH

Material

Plastic or stainless steel housing with EPDM sealings or DIN-rail housing for cabinet installations with separate display

Dimension

Plastic/stainless steel housing:

148 x 155 x 152 mm;

5.83 x 6.10 x 6.00 inches

DIN-rail housing:

139.5 x 163.7 x 75.1 mm;

5.49 x 6.44 x 2.96 inches"

Temperature sensor

Applicable sensors

Pt100,

Pt1000,

NTC 30K

Ex certification

ATEX, IECEX, C/US, CHN-Ex

Ingress protection

Field housing:

IP66/67 (IEC 60529)

NEMA 4X (UL 50E)

DIN-rail housing: IP20

Input

One channel transmitter for Memosens and analog (pH, ORP, conductivity)

Output / communication

4 to 20 mA, HART (optional), additional second output possible; HART communication, also later activatable

ORP / Redox

Measuring principle

Sensor ORP / Redox

ORP / Redox

Application

Chemical processes, pharmaceuticals industry, food and beverage technology, applications in hazardous areas

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ORP / Redox

Ingress protection

Field housing:
IP66/67 (IEC 60529)
NEMA 4X (UL 50E)
DIN-rail housing: IP20

Input

One channel transmitter for Memosens and analog (pH, ORP, conductivity)

Output / communication

4 to 20 mA, HART (optional), additional second output possible; HART communication, also later activatable

Conductivity

Measuring principle

Conductive

Application

Chemical processes, pharmaceuticals industry, food and beverage technology, applications in hazardous areas

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Measuring principle

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Conductivity

Dimension

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Temperature sensor

Applicable sensors

Pt100,

Pt1000,

NTC 30K

Ex certification

ATEX, IECEx, C/US, CHN-Ex

Ingress protection

Field housing:

IP66/67 (IEC 60529)

NEMA 4X (UL 50E)

DIN-rail housing: IP20

Input

One channel transmitter for Memosens and analog (pH, ORP, conductivity)

Output / communication

4 to 20 mA, HART (optional), additional second output possible; HART communication, also later activatable

Oxygen

Measuring principle

Amperometric oxygen measurement

Application

Chemical processes, pharmaceuticals industry, food and beverage technology, applications in hazardous areas

Oxygen

Characteristic

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Measuring principle

Memosens und analog Parameter; DIN-rail device Memosens only

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Temperature sensor

Applicable sensors

Pt100,

Pt1000,

NTC 30K

Ex certification

ATEX, IECEX, C/US, CHN-Ex

Ingress protection

Field housing:

IP66/67 (IEC 60529)

NEMA 4X (UL 50E)

DIN-rail housing: IP20

Oxygen

Input

One channel transmitter for Memosens and analog (pH, ORP, conductivity)

Output / communication

4 to 20 mA, HART (optional), additional second output possible; HART communication, also later activatable

More information www.endress.com/CM42B