

1-channel transmitter

Liquiline M CM42

Two-wire field device for hazardous and non-hazardous area use in chemicals, life sciences and food



More information and current pricing:

www.endress.com/CM42

Benefits:

- Simple commissioning with quick setup and navigator
- The Memosens technology allows plug & play with pre-calibrated Memosens sensors
- Less storage thanks to modular design
- Predictive maintenance system detects when a sensor has to be cleaned, calibrated or replaced

Specs at a glance

- **Input** One channel transmitter for Memosens and analog (pH, ORP, conductivity)
- **Output / communication** 1/2 x 4 to 20 mA, HART, Profibus PA, FF Additional second output possible, also later
- **Ingres protection** IP66/67, NEMA 4X

Field of application: Liquiline M CM42 is the robust transmitter for pH/ ORP, conductivity or oxygen measurement in all process applications. It is the best choice for demanding environments be it hygienic applications, hazardous areas or functional safety areas. Liquiline's intuitive operating concept simplifies commissioning, handling, and maintenance saving you time every day. Easy switching of parameters and seamless system integration give you the flexibility to adapt it exactly to your measuring task.

Features and specifications

pH

Measuring principle

ISFET

Application

Chemical processes, pharmaceuticals industry, foodstuff technology, applications in hazardous areas

Characteristic

Liquiline M CM42 is a modular two-wire transmitter for all areas of process engineering

Measuring principle

Potentiometric pH measurement

Design

Depending on the ordered version, Liquiline M CM42 has one or two analog current outputs or it can be connected to field busses as per FOUNDATION Fieldbus, PROFIBUS PA and HART protocol
Liquiline is developed acc. to the international safety standard IEC 61508

Material

Plastic or stainless steel housing with EPDM sealings

Dimension

Plastic housing:
144 x 144 x 148 mm
5.67 x 5.67 x 5.83 inch
Stainless Steel:
174 x 174 x 134 mm
6.85 x 6.85 x 5.28 inch

Temperature sensor

Applicable:
Pt100, Pt1000, NTC 30K

Ex certification

: ATEX, IECEx, FM, CSA, NEPSI, EAC, UKEx, JPN Ex

pH

Ingres protection

IP66/67, NEMA 4X

Input

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

Output / communication

1/2 x 4 to 20 mA, HART, Profibus PA, FF
Additional second output possible, also later

ORP / Redox

Measuring principle

Sensor ORP / Redox

Application

Chemical processes, pharmaceuticals industry, foodstuff technology, applications in hazardous areas

Characteristic

Liquiline M CM42 is a modular two-wire transmitter for all areas of process engineering

Measuring principle

ORP measurement

Design

Depending on the ordered version, Liquiline M CM42 has one or two analog current outputs or it can be connected to field busses as per FOUNDATION Fieldbus, PROFIBUS PA and HART protocol
Liquiline is developed acc. to the international safety standard IEC 61508

Material

Plastic or stainless steel housing with EPDM sealings

ORP / Redox**Dimension**

Plastic housing:

144 x 144 x 148 mm

5.67 x 5.67 x 5.83 inch

Stainless Steel:

174 x 174 x 134 mm

6.85 x 6.85 x 5.28 inch

Temperature sensor

Applicable:

Pt100, Pt1000, NTC 30K

Ex certification

ATEX, IECEX, FM, CSA, NEPSI, EAC, UKEx, JPN Ex

Ingres protection

IP66/67, NEMA 4X

Input

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

Output / communication

1/2 x 4 to 20 mA, HART, Profibus, FF

Additional second output possible, also later

Conductivity**Measuring principle**

Conductive

Application

Chemical processes, pharmaceuticals industry, foodstuff technology, applications in hazardous areas

Characteristic

Liquiline M CM42 is a modular two-wire transmitter for all areas of process engineering

Conductivity

Measuring principle

Resistance measurement

Design

Depending on the ordered version, Liquiline M CM42 has one or two analog current outputs or it can be connected to field busses as per FOUNDATION Fieldbus, PROFIBUS PA and HART protocol
Liquiline is developed acc. to the international safety standard IEC 61508

Material

Plastic or stainless steel housing with EPDM sealings

Dimension

Plastic housing:

144 x 144 x 148 mm

5.67 x 5.67 x 5.83 inch

Stainless Steel:

174 x 174 x 134 mm

6.85 x 6.85 x 5.28 inch

Temperature sensor

Applicable:

Pt100, Pt1000

Ex certification

ATEX, IECEx, FM, CSA, NEPSI, EAC, UKEx, JPN Ex

Ingres protection

IP66/67, NEMA 4X

Input

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

Output / communication

1/2 x 4 to 20 mA, HART, Profibus PA, FF

Additional second output possible, also later

Oxygen

Measuring principle

Amperometric oxygen measurement

Application

Chemical processes, pharmaceuticals industry, foodstuff technology, applications in hazardous areas

Characteristic

Liquiline M CM42 is a modular two-wire transmitter for all areas of process engineering

Measuring principle

Connection of oxygen sensors with Memosens coupling

Design

Depending on the ordered version, Liquiline M CM42 has one or two analog current outputs or it can be connected to field busses as per FOUNDATION Fieldbus, PROFIBUS PA and HART protocol
Liquiline is developed acc. to the international safety standard IEC 61508

Material

Plastic or stainless steel housing with EPDM sealings

Dimension

Plastic housing:
144 x 144 x 148 mm
5.67 x 5.67 x 5.83 inch
Stainless Steel:
174 x 174 x 134 mm
6.85 x 6.85 x 5.28 inch

Ex certification

ATEX, IECEX, FM, CSA, NEPSI, EAC, UKEx, JPN Ex

Ingres protection

IP66/67, NEMA4X

Oxygen

Input

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

Output / communication

1/2 x 4 to 20 mA, HART, Profibus PA, FF
Additional second output possible, also later

More information www.endress.com/CM42