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.mesc.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, FF Additional second output possible, also later
- **Ingress 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

Ingress 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
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ORP / Redox

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Applicable:
Pt100, Pt1000, NTC 30K

Ex certification

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

Ingress 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
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Temperature sensor
Applicable:
Pt100, Pt1000

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

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

Ingress protection
IP66/67, NEMA4X

Oxygen

Input

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

Output / communication

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More information **www.mesc.endress.com/CM42**