



## Technical Information

# Liquiline M CM42

Two-wire transmitter for Ex and non-Ex areas

Analog sensors: pH/ORP/conductivity/concentration/resistivity

Digital sensors: pH/ORP/oxygen



### Application

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

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

The extremely robust, corrosion-resistant plastic version and the hygienic stainless steel version are designed for the following applications:

- Chemical processes
- Pharmaceuticals industry
- Foodstuff technology
- Applications in hazardous locations

### Your benefits

- Cost-saving:
  - Simple commissioning with Quick Setup and Navigator (multifunction button)
  - Thanks to Memosens technology, a calibration in the plant is not required
  - Predictive maintenance system detects when a sensor has to be cleaned, calibrated or replaced
  - Less storage thanks to modular design
- Safe:
  - Active display of cable interruption with Memosens version
  - Red alarm LED reports error immediately
  - User-guided commissioning, graphic display and plain text guidance
  - ATEX, FM, CSA, NEPSI
  - Code-protected commissioning and calibration
- Industry solutions:
  - Modular concept: sensor module replaceable
  - Asset management (Fieldcare, W@M)

# Ordering information

## Product structure

Sensor input	
A	No Module
C	Conductivity, conductive measurement
I	Conductivity, inductive measurement
J	Digital sensor: turbidity
K	Digital sensor: conductivity, conductive measurement
L	Digital sensor: conductivity, inductive measurement
M	Digital sensor: pH/ORP with glass electrodes
N	Digital sensor: pH with ISFET sensors
O	Digital sensor: amperometric oxygen measurement
P	pH (glass/ISFET) or ORP
R	pH/ORP glass (2 high In+1 Ref) or ISFET
Approval	
A	Non-hazardous area, CSA GP
G	Atex II (1)2G EEx ia/ib IIC T6 / II 3 D
H	Atex II 3G EEx na II T6
N	NEPSI Ex nA II T6
P	FM IS NI Cl. I, Div. 1&2, Groups A-D
S	CSA IS NI Cl. I, II, III, Div. 1&2, Groups A-G
T	TIIS
Certificate	
A	not selected
B	Test certificate acc. to EN 10204, 3.1
C	Test certificate acc. to EN 10204, 3.1, factory calibration certificate
Output	
0	1 current output 4 to 20 mA, Hart®
1	2 current outputs 4 to 20 mA, 1x Hart®
2	PROFIBUS PA
3	FOUNDATION Fieldbus
Housing	
0	Plastic
1	Stainless steel 1.4301 (AISI 304)
Cable entry	
0	M20 x 1.5
1	NPT ½"
2	G½
Software	
EA	Standard version
EB	Advanced version
EC	Advanced Plus version
Device language	
C	Czech/En (Czech docs)
D	De/En (German docs)
E	En/De (English docs)
F	Fr/En (French docs)
J	Ja/En (Japanese docs)
L	Pl/En (Polish docs)
N	Nl/En (Dutch docs)
P	Po/En (Portuguese docs)
R	Ru/En (Russian docs)
S	Es/En (Spanish docs)
T	It/En (Italian docs)
Z	Zh/En (Chinese docs)
Documentation	
0	Installation and configuration
1	Installation and configuration + safety manual
Additional equipment	
0	Basic version
CM42-	complete order code

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