

# 1-/2-kanaals transmitter Liquiline CM442

## Uitbreidbaar multiparameter- procesinstrument voor alle industrieën



Meer informatie en actuele prijzen:

[www.be.endress.com/CM442](http://www.be.endress.com/CM442)

### Voordelen:

- **Slimme eenvoud:**  
één controller voor alle parameters en toepassingen, intuïtieve gebruikersinterface, automatische sensorherkenning, hot plug & play met vooraf gekalibreerde Memosens-sensoren.
- **Hoge flexibiliteit:**  
universele modules voor alle parameters minimaliseren de voorraad reserveonderdelen en maken een eenvoudige uitbreiding tot maximaal 8 kanalen op elk gewenst moment mogelijk.
- **Naadloze systeemintegratie:**  
de unieke set communicatiestandaarden is geschikt voor elk distributed control system (DCS).
- **Eenvoudige en veilige inbedrijfstelling:**  
door de configuratie op een SD-kaart op te slaan kunnen de instellingen snel naar een tweede installatie worden gekopieerd.
- **Procesbewaking op afstand:**  
geïntegreerde webserver die de operator in staat stelt om op afstand diagnosegegevens te bekijken, configuraties uit te voeren of toegang te krijgen tot instrumentparameters in elke webbrowser - zelfs via smartphone.
- **Hogere beschikbaarheid, lagere kosten:**  
Heartbeat Technology maakt statusgericht onderhoud en eenvoudige verificatie van het gehele meetpunt mogelijk en helpt bij het uitvoeren van optimalisatiemaatregelen.

### Overzicht specificaties

- **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

**Toepassingsgebied:** Met de transmitter Liquiline CM442 kunt u maximaal 2 Memosens-sensoren naar keuze aansluiten en meer dan 12 parameters meten. Hij biedt automatische sensorherkenning en een eenvoudige bediening en deelt gestandaardiseerde reserveonderdelen met alle andere instrumenten van het Liquiline-platform. Met zijn ingangen, uitgangen, regelaars en rekenmodules kunt u zelfs reinigingssystemen of doseerpompen bewaken. Heartbeat Technology helpt u de ideale balans te vinden tussen meetpuntbeschikbaarheid en onderhoudskosten.

## Kenmerken en specificaties

pH

### Meetprincipe

Potentiometric

### 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

## pH

**Material**

Housing base: PC-FR

Housing seal: EPDM

**Dimension**

237 x 194 x 162 mm

9.33 x 7.64 x 6.38 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

**Meetprincipe**

Sensor ORP / Redox

**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

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**ORP / Redox****Characteristic**

Robust plastic housing  
All non-ex applications

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**Design**

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

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**Material**

Housing base: PC-FR  
Housing seal: EPDM

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**Dimension**

237 x 194 x 162 mm  
9.33 x 7.64 x 6.38 inch

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**Process temperature**

-20 to 60 °C (0 to 140 °F)

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**Ingres protection**

IP66 / IP67

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**Input**

1 to 2x Memosens digital input

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**Output / communication**

2 to 8x 0/4 to 20 mA current outputs  
Alarmrelay, 2x relay

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**Additional certifications**

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**Conductivity****Meetprincipe**

Conductive

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## Conductivity

### Application

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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

### Material

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Housing seal: EPDM

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### Input

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Alarmrelay, 2x relay

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**Conductivity****Additional certifications**EAC, cCSAus, MCERTS

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**Oxygen****Meetprincipe**Amperometric oxygen measurement

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Functionality modular extendable at any time

Plug and play for modules and sensors

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**Characteristic**

Robust plastic housing

All non-ex applications

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**Design**

2x Memosens input, 2 to 4x current output, Alarmrelay

2x relay, SD card for software update and copy & paste of setup

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**Material**

Housing base: PC-FR

Housing seal: EPDM

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**Dimension**

237 x 194 x 162 mm

9.33 x 7.64 x 7.38 inch

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**Process temperature**-20 to 60 °C (0 to 140 °F)

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**Ingres protection**IP67

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## Oxygen

**Input**

1 to 2x Memosens digital input

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**Output / communication**

2 to 4x 0/4...20 mA current outputs

Alarmrelay, 2x relay

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**Additional certifications**

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## Disinfection

**Meetprincipe**

Free chlorine

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Functionality modular extendable at any time

Plug and play for modules and sensors

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**Characteristic**

Robust plastic housing

All non-ex applications

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**Design**

2x Memosens input, 2 to 4x current output, Alarmrelay

2x relay, SD card for software update and copy & paste of setup

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**Material**

Housing base: PC-FR

Housing seal: EPDM

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**Dimension**

237 x 194 x 162 mm

9.33 x 7.64 x 7.38 inch

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## Disinfection

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**Process temperature**

-20 to 60 °C (0 to 140 °F)

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**Input**

1 to 2x Memosens digital input

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**Output / communication**

2 to 4x 0/4 to 20 mA current outputs  
Alarmrelay, 2x relay

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## Turbidity

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**Meetprincipe**

Four beam alternating light

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Plug and play for modules and sensors

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**Characteristic**

Robust plastic housing

All non-ex applications

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**Design**

2x Memosens input, 2 to 4x current output, Alarmrelay,

2x relay, SD card for software update and copy & paste of setup

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**Material**

Housing base: PC-FR

Housing seal: EPDM

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## Turbidity

**Dimension**

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**Process temperature**

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**Ingres protection**

IP66 / IP67

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**Input**

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2x 0/4 to 20mA input optional  
2x Digital input optional

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**Output / communication**

2 to 4x 0/4 to 20 mA current outputs,  
Alarmrelay, 2x relay

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**Additional certifications**

EAC, cCSAus, MCERTS

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## Sludge Level

**Meetprincipe**

Ultrasonic sensor

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**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

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**Characteristic**

Robust plastic housing  
All non-ex applications

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## Sludge Level

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### Design

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

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### Material

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Housing seal: EPDM

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### Output / communication

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Alarmrelay, 2x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

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### Additional certifications

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## Analyser

### Meetprincipe

UV photometric

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### Characteristic

Robust plastic housing  
All non-ex applications

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## Analyser

### Design

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### Output / communication

2 to 8x 0/4 to 20 mA current outputs  
Alarmrelay, 2x relay

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### Input

1 to 2x Memosens digital input

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