1-/2-channel transmitter Liquiline CM442R

Compact multiparameter DIN-rail and cabinet device for all industries



More information and current pricing: www.endress.com/CM442R

Benefits:

- Saves space, saves money: Extremely small footprint, saves space in cabinets – perfect for skids.
- High-speed installation: No cut-out in cabinet door, one-click DIN-rail mounting, minimized
- Simple and safe commissioning: Saving configuration on SD card enables fast set-up on duplicate installations.
- Easy to operate and service: Intuitive user interface, hot plug & play with pre-calibrated Memosens sensors, universal components fit all parameters.
- Process control from a distance: Integrated web server that allows the operator to remotely view diagnostic data, perform configurations, or access device parameters in any web browser - even via Smartphone.
- Higher availability, lower costs: Heartbeat Technology enables status-oriented maintenance and easy verification of the entire measuring point and helps to carry out optimization measures.
- Drive connectivity: Liquiline Edge Module CYY7 transfers process data to Netilion, independently of the fieldbus. This allows remote overview and the use of IIoT services. It's available in new products or as upgrade to installed Liquiline platforms.

Specs at a glance

• 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
- Ingress protection Transmitter: IP20 Optional Display: IP66

Field of application: Liquiline CM442R allows you to connect up to 2 Memosens sensors of your choice from over 12 measurement parameters. With its extremely compact design, it fits into any cabinet - and even offers inputs, outputs, controllers, and math modules, e.g. for cleaning control. The transmitter belongs to the Liquiline platform with standardized system integration, operation, and spare parts. Heartbeat Technology helps you find the ideal balance between measurement point availability and maintenance costs.

Features and specifications

-[Measuring principle

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

pН

рН

Material

DIN rail housing: PC-FR Display seal: EPDM

Dimension

99 x 100 x 97 mm 3.9 x 3.94 x 3.82 inch

Process temperature

0 to 60 °C (32 to 140 °F)

Ingress protection

Transmitter: IP20 Optional Display: IP66

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

ORP / Redox

Measuring principle

Sensor ORP / Redox

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

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

DIN rail housing: PC-FR Display seal: EPDM

Dimension

99 x 100 x 97 mm 3.9 x 3.94 x 3.82 inch

Process temperature

0 to 60 °C (32 to 140 °F)

Ingress protection

Transmitter: IP20 Optional Display: IP66

Input

1 to 2x Memosens digital input 2x 0/4 to 20mA Input optional 2x Digital input optional

ORP / Redox

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

Conductivity

Measuring principle

Conductive

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

Material

DIN rail housing: PC-FR Display seal: EPDM

Dimension

99 x 100 x 97 mm 3.9 x 3.94 x 3.82 inch

Conductivity

Process temperature

0 to 60 °C (32 to 140 °F)

Ingress protection

Transmitter: IP20 Optional Display: IP66

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

Oxygen

Measuring principle

Amperometric oxygen measurement

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

Oxygen

Design

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

Material

DIN rail housing: PC-FR Display seal: EPDM

Dimension

99 x 100 x 97 mm 3.9 x 3.94 x 3.82 inch

Process temperature

0 to 60 °C (32 to 140 °F)

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

Disinfection

Measuring principle

Total chlorine

Disinfection

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

Material

DIN rail housing: PC-FR Display seal: EPDM

Dimension

99 x 100 x 97 mm 3.9 x 3.94 x 3.82 inch

Process temperature

0 to 60 °C (32 to 140 °F)

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

Disinfection

Additional certifications

EAC, cCSAus

Turbidity

Measuring principle

Single beam scattered light

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

Material

DIN rail housing: PC-FR Display seal: EPDM

Dimension

99 x 100 x 97 mm 3.9 x 3.94 x 3.82 inch

Process temperature

0 to 60 °C (32 to 140 °F)

Ingress protection

Transmitter: IP20 Optional Display: IP66

Turbidity

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

Sludge Level

Measuring principle

Ultrasonic sensor

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

Material

DIN rail housing: PC-FR Display seal: EPDM

Sludge Level

Dimension

99 x 100 x 97 mm 3.9 x 3.94 x 3.82 inch

Process temperature

0 to 60 °C (32 to 140 °F)

Ingress protection

Transmitter: IP20 Optional Display: IP66

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

More information www.endress.com/CM442R

