

## 4 채널 트랜스미터 Liquiline CM444

모든 산업을 위한 확장형 멀티파라미터 현장 계기



추가 정보 및 현재 가격:

[www.kr.endress.com/CM444](http://www.kr.endress.com/CM444)

### 장점:

- **단순성:**  
한 컨트롤러를 모든 파라미터와 어플리케이션에서 사용, 직관적인 사용자 인터페이스, 자동 센서 인식, 사전 교정된 Memosens 센서를 통한 핫 플러그 앤 플레이 지원.
- **유연성:**  
모든 파라미터를 지원하는 범용 모듈로 예비 부품 재고를 최소화하고 언제든지 8채널까지 손쉽게 확장할 수 있습니다.
- **완벽한 시스템 통합:**  
모든 분산 제어 시스템(DCS)에 적합한 고유한 통신 표준 포트폴리오.
- **간단하고 안전한 시운전:**  
SD 카드에 구성을 저장해 중복 설치에서 신속한 설정이 가능합니다.
- **원격 프로세스 제어:**  
통합 웹 서버를 통해 작업자가 웹 브라우저나 스마트폰에서 원격으로 진단 데이터를 확인하거나, 구성을 수행하거나, 계기 파라미터에 액세스할 수 있습니다.
- **가용성 향상, 비용 감소:**  
하트비트 기술(Heartbeat Technology)을 통해 상태 지향 유지보수를 수행하고, 손쉽게 전체 측정 개소를 검증하고, 최적화 조치를 취할 수 있습니다.

### 사양 정보

- **Input** 1 to 4x Memosens digital input 2x 0/4 to 20mA Input optional 2 to 4x Digital input optional
- **Output / communication** 2 to 8x 0/4 to 20 mA current outputs, alarmrelay, 4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet
- **Ingres protection** IP66 / IP 67

**적용 분야:** Liquiline CM444는 모든 어플리케이션의 프로세스 모니터링과 제어를 위한 디지털 멀티파라미터 트랜스미터로, 언제든지 프로세스에 맞춰 모듈을 추가할 수 있습니다. 4채널 컨트롤러가 완벽한 시스템 통합과 간단한 작동을 지원해 시간과 비용을 절약하고 예비 부품 재고를 최소화할 수 있습니다. Liquiline CM444는 단순성에서 프로세스 안전성에 이르기까지 최고의 트랜스미터 플랫폼이 제공하는 모든 장점을 갖추고 있습니다.

## 특징 및 사양

pH

### 측정 원리

Potentiometric

### Application

Modular 4 wire controller

Multichannel: 1 to 4 digital channels for Memosens protocol

Multiparameter: pH, redox, ISFET, conductivity inductive and conductive, dissolved oxygen, nitrate and turbidity

4 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

2 to 4x Memosens input, 2 to 8x current output

Alarmrelay, 4x relay, SD card for software update and copy &amp; paste of setup

### Material

Housing base: PC-FR

Housing seal: EPDM

### Dimension

237 x 194 x 162 mm

9.33 x 7.64 x 6.38 inch

pH

**Process temperature**

-20 to 55 °C (0 to 130 °F)

**Ingres protection**

IP66 / IP 67

**Input**

1 to 4x Memosens digital input

2x 0/4 to 20mA Input optional

2 to 4x Digital input optional

**Output / communication**

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

4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

**Additional certifications**

EAC, cCSAus

ORP / Redox

**측정 원리**

Sensor ORP / Redox

**Application**

Modular 4 wire controller

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Multiparameter: pH, redox, ISFET, conductivity inductive and conductive, dissolved oxygen, nitrate and turbidity

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**Characteristic**

Robust plastic housing

All non-ex applications

## ORP / Redox

**Design**

2 to 4x Memosens input, 2 to 8x current output  
Alarmrelay, 4x relay, SD card for software update and copy & paste of setup

**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 55 °C (0 to 130 °F)

**Ingres protection**

IP66 / IP 67

**Input**

1 to 4x Memosens digital input  
2x 0/4 to 20mA Input optional  
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**Additional certifications**

EAC, cCSAus

## Conductivity

**측정 원리**

Conductive

## Conductivity

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### Input

1 to 4x Memosens digital input

2x 0/4 to 20mA Input optional

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## Conductivity

**Output / communication**

2 to 8x 0/4 to 20 mA current outputs, alarmrelay,  
4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

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**Additional certifications**

EAC, cCSAus

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## Oxygen

**측정 원리**

Amperometric oxygen measurement

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dissolved oxygen, nitrate and turbidity

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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**

2 to 4x Memosens input, 2 to 8x current output

Alarmrelay, 4x 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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## Oxygen

**Process temperature**

-20 to 55 °C (0 to 130 °F)

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**Input**

1 to 4x Memosens digital input

2x 0/4 to 20mA Input optional

2 to 4x Digital input optional

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**Output / communication**

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

4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Etherne

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**Additional certifications**

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## Disinfection

**측정 원리**

Free chlorine

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**Characteristic**

Robust plastic housing

All non-ex applications

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**Design**

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Alarmrelay, 4x relay, SD card for software update and copy & paste of setup

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## Disinfection

### 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

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### Input

1 to 4x Memosens digital input

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### Output / communication

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### Additional certifications

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## Turbidity

### 측정 원리

Single beam scattered light

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## Turbidity

### Characteristic

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IP66 / IP 67

### Input

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### Output / communication

2 to 8x 0/4 to 20 mA current outputs, alarmrelay,  
4x relay, ProfibusDP, Modbus RS485, Modbus TCP, Ethernet

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EAC, cCSAus

## Sludge Level

### 측정 원리

Ultrasonic sensor

## Sludge Level

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## Sludge Level

**Output / communication**

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**Additional certifications**

EAC, cCSAus

## Analyser

**측정 원리**

Potentiometric / ISE

**Characteristic**

Robust plastic housing  
All non-ex applications

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