

## RIA45

### Process meter with control unit

Multifunctional panel mounted process meter for monitoring and indication of analog measured values



from **CHF289.00**

Price as of 21.06.2021

More information and current pricing:

[www.ch.endress.com/RIA45](http://www.ch.endress.com/RIA45)

#### Benefits:

- 5-digit 7-segment LC display, backlit
- 1 or 2 universal inputs
- 2 relays (optional)
- Min./max. value saved
- 1 or 2 calculated values and linearization table
- Digital status output (Open Collector)
- SIL2 approval (optional); marine approval

#### Specs at a glance

- **Input** 2 x universal (U, I, R, RTD, TC)
- **Output** 1 x loop power supply
- **Output** 2 x analogue output (I, U) 1 x loop power supply
- **Display** Multicolor backlight LCD White/black/yellow Bargraph  
Unit TAG Alarm warning in plain text
- **Power Supply** 20...250V AC/DC

**Field of application:** Analog measured values are indicated, evaluated and calculated by the process meter. With the integrated loop power supply two-wire sensors can be powered. The universal inputs enable the connection of current, voltage, RTDs and TCs. Limit values can be monitored and relays can be switched. Via analog outputs process signals can be forwarded. The integrated application package "differential pressure" allows the quick and easy commissioning for differential pressure applications.

#### Features and specifications

## Acquisition / Evaluation

**Measuring principle**

Display

**Function**

Display

Loop power supply

Transmitter functionality

Barrier

Signal isolation

Calculation

Limit alarm

**Certification**

ATEX II (1)GD[Ex ia] 4C

CSA AIS, NI/I/2 ABCDEFG/T4

FM AIS, NI/I/2 ABCDEFG/T4

Marine approval

UR C/US

**Input**

2 x universal (U, I, R, RTD, TC)

**Output**

2 x analogue output (I, U)

1 x loop power supply

Acquisition / Evaluation

**Relay output**

2 x changeover contact

1 x open collector

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**Auxiliary power supply / Loop power supply**

20...250V AC/DC

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**Dimensions (wxhxd)**

Panel housing:

96 x 48 x 175 mm

(3.78" x 1.89" x 6.89")

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**Software**

Linearization

Minimum value per channel

Maximum value per channel

Calculation

Band value monitoring

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**Operation**

3 keys

Interface CDI to USB at PC + configuration software

FieldCare

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Acquisition / Evaluation

**Display**

Multicolor backlight LCD

White/black/yellow

Bargraph

Unit

TAG

Alarm warning in plain text

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Process indicator & control units

**Measuring principle**

Indicators with control unit

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**Measuring principle**

Process meter with control unit

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**Function**

Display

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**Process indicator & control units****Display**

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**Power Supply**20...250V AC/DC

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**Input**2 x universal (U, I, R, RTD, TC)

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**Output**1 x loop power supply

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**Output**1 x loop power supply

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**Software functions**

Linearization

Minimum value per channel

Maximum value per channel

Calculation

Band value monitoring

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Process indicator & control  
units

**Certificates**

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**SIL**

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**Panel mounting**

panel mounting

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More information [www.ch.endress.com/RIA45](http://www.ch.endress.com/RIA45)