

# RIA45

## Process meter with control unit

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



from **€249.05**

Price as of 09.08.2022

More information and current pricing:

[www.at.endress.com/RIA45](http://www.at.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

**Process indicator & control units****Measuring principle**

Indicators with control unit

**Measuring principle**

Process meter with control unit

**Function**

Display  
Loop power supply  
Transmitter functionality  
Barrier  
Signal isolation  
Calculation  
Limit alarm

**Display**

Multicolor backlight LCD  
White/black/yellow  
Bargraph  
Unit  
TAG  
Alarm warning in plain text

**Power Supply**

20...250V AC/DC

**Input**

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

**Output**

1 x loop power supply

**Output**

1 x loop power supply

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**Process indicator & control units****Software functions**

Linearization  
Minimum value per channel  
Maximum value per channel  
Calculation  
Band value monitoring

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**Certificates**

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

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**SIL**

2

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**Panel mounting**

panel mounting

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**Acquisition / Evaluation****Measuring principle**

Display

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**Function**

Display  
Loop power supply  
Transmitter functionality  
Barrier  
Signal isolation  
Calculation  
Limit alarm

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**Acquisition / Evaluation****Certification**

ATEX II (1)GD[Ex ia] 4C  
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Marine approval  
UR C/US

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**Input**

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

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**Output**

2 x analogue output (I, U)  
1 x loop power supply

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