

RIA45

Process meter with control unit

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



from **\$401.00**

Price as of 08/10/2022

More information and current pricing:

www.us.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

Process indicator & control units**Software functions**

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

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

SIL

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Panel mounting

panel mounting

Acquisition / Evaluation**Measuring principle**

Display

Function

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

Acquisition / Evaluation**Certification**

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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

Relay output

2 x changeover contact
1 x open collector

Auxiliary power supply / Loop power supply

20...250V AC/DC

Dimensions (wxhxd)

Panel housing:
96 x 48 x 175 mm
(3.78" x 1.89" x 6.89")

Software

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

Operation

3 keys
Interface CDI to USB at PC + configuration software
FieldCare

Acquisition / Evaluation

Display

Multicolor backlight LCD

White/black/yellow

Bargraph

Unit

TAG

Alarm warning in plain text

More information www.us.endress.com/RIA45