

## RIA452

### Process indicator with pump control

Digital process meter in panel mounted housing for monitoring and displaying analog measured values



from **£357.00**

Price as of 12.05.2021

More information and current pricing:

[www.uk.endress.com/RIA452](http://www.uk.endress.com/RIA452)

#### Benefits:

- 7-digit 14-segment LC display, large bar graph with overrange and underrange
- Digital status inputs for pump monitoring
- Flow measurement for open channels and weirs
- Intrinsically safe input with integrated loop power supply
- Min/Max value saved
- Linearization table with up to 32 support points

#### Specs at a glance

- **Input** 1 x analog (U, I, RTD, TC, R)
- **Output** 1 x analog (U, I) 1 x transmitter power supply
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- **Display** LCD multicolour Illuminated Bargraph
- **Power Supply** 90...250 V AC 20...28 V AC 20...36 V DC

**Field of application:** The process meter monitors and displays the analog measured values. Pumps can be monitored with the digital status inputs. The RIA452 can provide power directly to two-wire sensors connected. Up to eight freely programmable relays monitor the measured value. Other operating modes for the relays include sensor or device malfunction, batch and pump control functions. Furthermore, the RIA452 can be used as a preset counter and for measuring flow at open channels and measuring weirs.

#### Features and specifications

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**Process indicator & control units****Measuring principle**Indicators with control unit

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**Measuring principle**Process indicator with pump control

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**Function**

Display

Power

Switch

Seperate

Convert

Count

Calculate

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**Display**

LCD multicolour

Illuminated

Bargraph

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**Power Supply**

90...250 V AC

20...28 V AC

20...36 V DC

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**Input**1 x analog (U, I, RTD, TC, R)

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**Process indicator & control units****Output**

1 x analog (U, I)

1 x transmitter power supply

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**Output**

1 x analog (U, I)

1 x transmitter power supply

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**Software functions**

Pump control

Linearisation

Flow calculation

Batch counter

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**Certificates**

Non-hazardous area

FM

CSA

W/o ATEX approval, Ex-sensor supply via external RB223

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**SIL**Not defined

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**Panel mounting**panel mounting

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

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**Function**

Display

Power

Switch

Seperate

Convert

Count

Calculate

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**Certification**

UL rec. Comp

ATEX Ex i

FM USA IS

FM USA NI

CSA IS

CSA NI

TIIS Ex ia

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**Input**1 x analog (U, I, RTD, TC, R)

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**Acquisition / Evaluation****Output**

1 x analog (U, I)

1 x transmitter power supply

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**Relay output**4...8 x changeover contacts

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**Auxiliary power supply / Loop power supply**

90...250 V AC

20...28 V AC

20...36 V DC

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**Dimensions (wxhxd)**

Panel housing:

96 x 96 x 161.3 mm

(3.78" x 3.78" x 6.35")

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**Software**

Pump control

Linearisation

Flow calculation

Batch counter

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**Operation**

3 keys

Interface RS252 + ReadWin2000

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Acquisition / Evaluation

**Display**

LCD multicolour

Illuminated

Bargraph

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More information [www.uk.endress.com/RIA452](http://www.uk.endress.com/RIA452)