

RIA452

Process indicator with pump control

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



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

from **€385.00**

Price as of 02.12.2021

More information and current pricing:

www.apsc.endress.com/RIA452

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

Acquisition / Evaluation**Measuring principle**Display

Function

Display

Power

Switch

Seperate

Convert

Count

Calculate

Certification

UL rec. Comp

ATEX Ex i

FM USA IS

FM USA NI

CSA IS

CSA NI

TIIS Ex ia

Input1 x analog (U, I, RTD, TC, R)

Output

1 x analog (U, I)

1 x transmitter power supply

Relay output4...8 x changeover contacts

Auxiliary power supply / Loop power supply

90...250 V AC

20...28 V AC

20...36 V DC

Acquisition / Evaluation**Dimensions (wxhxd)**

Panel housing:
96 x 96 x 161.3 mm
(3.78" x 3.78" x 6.35")

Software

Pump control
Linearisation
Flow calculation
Batch counter

Operation

3 keys
Interface RS252 + ReadWin2000

Display

LCD multicolour
Illuminated
Bargraph

Process indicator & control units**Measuring principle**

Indicators with control unit

Measuring principle

Process indicator with pump control

Function

Display
Power
Switch
Seperate
Convert
Count
Calculate

Process indicator & control units**Display**

LCD multicolour
Illuminated
Bargraph

Power Supply

90...250 V AC
20...28 V AC
20...36 V DC

Input

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

Output

1 x analog (U, I)
1 x transmitter power supply

Output

1 x analog (U, I)
1 x transmitter power supply

Software functions

Pump control
Linearisation
Flow calculation
Batch counter

Certificates

Non-hazardous area
FM
CSA
W/o ATEX approval, Ex-sensor supply via external
RB223

SIL

Not defined

Panel mounting

panel mounting

Process indicator & control
units

More information www.apsc.endress.com/RIA452