RIA46
Field meter with control unit

Multifunctional field meter for monitoring and indication of analog measured values

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)
- SIL 2 approval (optional)

Specs at a glance
- **Input** 2 x universal (U, I, R, RTD, TC)
- **Output** 2 x analogue output (I, U) 1 x loop power supply
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- **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 field indicator. 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

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<th>Measuring principle</th>
<th>Indicators with control unit</th>
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#### 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
- 2 x analogue output (I, U) 1 x loop power supply
- 2 x analogue output (I, U) 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] IIC
- CSA General Purpose
- CSA AIS, NI/I/2/ABCDEFG/T4
- FM AIS, NI/I/2/ABCDEFG/T4
- TIIS [Ex ia] IIC
- NEPSI [Ex ia] IIC
- UK II(1)G [Ex ia Ga] IIC, II(1)D [Ex ia Da] IIIC

**SIL**
- 2

Panel mounting
- field

Acquisition / Evaluation

**Measuring principle**
- Display

**Function**
- Display
- Loop Power Supply
- Transmitter Functionality
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Acquisition / Evaluation

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<th>Certification</th>
<th>ATEX II (1) GD [Ex ia] 4C, CSA AIS, NI/I/2 ABCDEFG/T4, FM AIS, NI/I/2 ABCDEFG/T4, UR C/US</th>
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<td><strong>Output</strong> (continued)</td>
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<tr>
<td>Output</td>
<td>2 x analogue output (I, U)</td>
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<td>1 x loop power supply</td>
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<td>Relay output</td>
<td>2 x changeover contact</td>
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<td>1 x open collector</td>
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<td>Auxiliary power supply</td>
<td>20...250V AC/DC</td>
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<td>Dimensions (wxhxd)</td>
<td>Field housing: 199 x 133 x 96 mm (7.83&quot; x 5.24&quot; x 3.78&quot;)</td>
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<td><strong>Software</strong></td>
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<td>3 keys</td>
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<td>Interface CDI to USB at PC + configuration software</td>
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<td>FieldCare</td>
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Endress+Hauser
**Field Meter with Control Unit RIA46**

**Acquisition / Evaluation**

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

More information [www.endress.com/RIA46](http://www.endress.com/RIA46)