

# **Measuring transducer RK170**



### **Device features**

- · Plastic enclosure for DIN rail mounting
- · Zero setting 0 or 4 mA
- Electrical separation between the input and output signal

## **Product description**

The measuring transducer RK170 is designed to convert current signals of measuring instrument outputs of A-ISOMETER®s (0...400  $\mu$ A) and residual current monitors (RCM, RCMA) into standard current signals 0(4)...20 mA or into voltage signals (0...10 V). These currents and voltages are usually required in process technology.

### **Application**

- Conversion of DC 0...400  $\mu A$  current signals into 0(4)...20 mA or 0...10 V signals
- For A-ISOMETER®s and residual current monitors RCM, RCMA with measuring instrument output of DC  $0...400~\mu A$

# **RK170 adjustments**

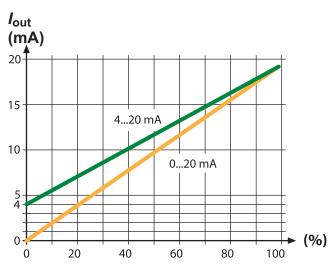
The signals at the outputs 0(4)...20 mA and 0...10 V are simultaneously available and their own nominal load must not be exceeded.

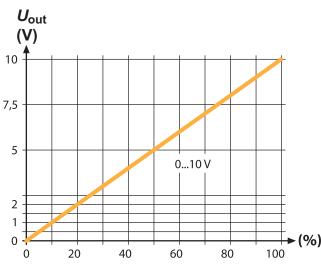
Setting the zero and the full-scale value will have an effect on both outputs. Hence, optimum adjustment is only possible for one output at a time.

The measuring transducer RK170 is factory-set to an input signal of DC 0...400  $\mu$ A providing a galvanically isolated output signal of 0...20 mA or 0...10 V. When an output signal of 4...20 mA is required or the measuring transducer RK170 is to be adjusted for other reasons, the adjustment can be carried out using the trimmers "Zero" and "Scale".

Wiring diagram

### **Characteristic curve**





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1 - Zero: zero setting

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2 - Scale: full-scale value calibration

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- B RCM series device
- 4 U<sub>S</sub> see nameplate, 2 A slow-blow fuse recommended

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Ordering information		
Туре	Supply voltage <i>U</i> S	Art. No.
RK170	AC 19264 V* / DC 20297 V*	B 9804 1500

\*Absolute value

# **Technical data**

DC 20297 V / AC 19264 V
50120 Hz
≤ 3 VA
DC 0400 μA
DC 4 mA
approx. 2.5 kΩ
two outputs with common ground
DC 0 10 V
DC 12 V
1 kΩ
DC 0 / 420 mA
≤ DC 50 mA short-circuit proof
500 Ω
class 0.5
0.025 % / °C
50 ms
AC 2500 V
5 g/11 ms
1 g/10150 Hz
2 g/10150 Hz
0 °C+50 °C
-20 °C+70 °C
3K3
continuous operation
any position
modular terminals
0.52.5 mm <sup>2</sup> / 0.141.5 mm <sup>2</sup>
IP40
IP20
75 x 22.5 x 110 mm
IEC 60715
UL94 V-2
BP109006
≤ 200 g

# Type of enclosure/dimension diagram

Dimensions in mm

