

FLAWSIC200

ultrasonic flow measurement instrument

The tunnel flow velocity measuring device for long-term operation



More information and current pricing:

www.endress.com/IFL200

Benefits:

- Representative measurement across total tunnel width
- Very reliable measurement, compared with punctual measurement methods
- Accurate measurement even of very low flow velocities
- Long maintenance intervals of up to 5 years
- Low operating costs due to reliable operation and low maintenance
- High availability of devices and, therefore, of measurement data also

Specs at a glance

- **Measured variables** Flow velocity, Direction of flow, temperature
- **Measuring range** Flow Velocity: 0 ... ± 20 m/s
- **Conformities** RABT 2006 ASTRA "Guideline - Ventilation of Road Tunnels" (2008) RVS 09.02.22

Field of application: The FLOW SIC200 is used for the contact-free and accurate measurement of flow velocity and flow direction inside tunnels or exhaust ventilation ducts. Ultrasonic technology provides the cross-sectional mean average value of the flow velocity. This device is used for measurement necessary for optimal ventilation control and reducing running costs to a minimum when air flow is dictated by climatic conditions or by traffic.

Features and specifications

Gas**Measuring principle**

Ultrasonic transit time difference measurement

Measured variables

Flow velocity, Direction of flow, temperature

Measuring range

Flow Velocity: 0 ... ± 20 m/s

Operating pressure range

-100 hPa ... 100 hPa

Nominal pipe size

FLOWSIC200 M, FLOWSIC200 H-M: 3.5 m ... 22 m

FLOWSIC200 H: 3.5 m ... 35 m

Conformities

RABT 2006

ASTRA "Guideline - Ventilation of Road Tunnels" (2008)

RVS 09.02.22

Outputs

1 output:

0/2/4 ... 20 mA, - 750 Ω

Electrically isolated; additional outputs if using I/O modules (option)

Digital Outputs

5 relay outputs (change-over contacts), potential-free:

- 48 V AC, 1 A

Safety extra-low voltage; for status signals "operation/malfunction", "limit value", "warning", "maintenance" and "check cycle"

Digital communication

RTU RS-485

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