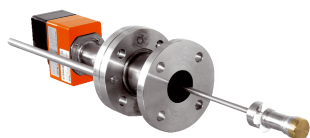


FLOWSIC100 Process

Reliable and precise volume flow measurement in processes

GAS FLOW MEASURING INSTRUMENTS

SICK
Sensor Intelligence.



Technical data overview

| | |
|------------------------------|---|
| Measured values | Gas velocity, Mass flow rate, volumetric flow a. c., volumetric flow s. c., sound velocity, gas temperature |
| Measurement principle | Ultrasonic transit time difference measurement |
| Hazardous area | 3G |
| Gas temperature | -40 °C ... +260 °C |
| Operating pressure | -0.5 bar ... 16 bar Depending on device version |
| Nominal pipe size | 0.15 m ... 1.7 m Depending on device version |
| Enclosure rating | IP65 |
| USB | ✓ |
| Function | Connection to SOPAS ET software |
| Serial | ✓ |
| Type of fieldbus integration | RS-232 RS-485 |
| Function | Connection to SOPAS ET software Internal system bus |
| Ethernet | ✓ |
| Type of fieldbus integration | Via optional interface module |
| Modbus | ✓ |
| Type of fieldbus integration | ASCII RS-485 (via optional interface module) RTU RS-485 (via optional interface module) TCP (via optional interface module) |
| HART | ✓ |
| Type of fieldbus integration | Via optional interface module |
| PROFIBUS DP | ✓ |
| Type of fieldbus integration | Via optional interface module |
| Foundation Fieldbus | ✓ |
| Type of fieldbus integration | Via optional interface module |
| Diagnostics functions | Automatic check cycle for zero and span point Extended device diagnosis via SOPAS ET software |

Product description

With the FLOWSIC100 Process gas flow measurement devices, measurements can be taken at pressures up to 16 bar – even in zone 2 explosive environments. The sender/receiver units are available as hermetically sealed designs made of stainless steel or titanium. The standard system contains an MCU control unit and 2 sender/receiver units or a single measuring probe. The MCU is used for signal input and output and to calculate reference values (standardization) or mass flow. It also serves as a user-friendly LCD interface.

At a glance

- Corrosion-resistant transducer made of stainless steel or titanium
- Up to 16 bar process pressure
- Explosion-protected design for applications in zone 2 (ATEX) available
- Hermetically sealed ultrasonic transducer
- Measurements practically free of pressure loss and without influencing the process
- Automated operational check with zero and reference point test

Your benefits

- Reliable and accurate measurement even at low gas velocities
- Low-maintenance, as no moving parts
- Measurement is independent of pressure, temperature, and gas composition
- Does not affect gas flow, as non-contact measurement
- Approved for use in zone 2 explosive environments(ATEX)
- User-friendly operation and device diagnosis via MCU control unit and SOPAS ET operating software

Fields of application

- Natural gas industry
- Chemical and plastics-processing industry
- Glass Industry
- Pharmaceutical industry
- Petrochemical plants and refineries
- Cement production
- Steel and iron production
- Food industry

Ordering information

Other models and accessories → www.sick.com/FLWSIC100_Process

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com