Product family overview

FLOWSIC30

Versatile gas flow meter for measuring tasks in gas production

GAS FLOW METERS

SICK
Sensor Intelligence.

Technical data overview

Measured values	Gas volume s. c., gas volume a. c., volumetric flow s. c., volumetric flow a. c., gas pressure, gas temperature, sound velocity, methane content, energy flow rate
Measurement principle	Ultrasonic transit time difference measurement
Number of measuring paths	2
Hazardous area	2G Gb
Gas temperature	–10 °C ... +80 °C
Operating pressure	0 bar (g) ... 19.6 bar (g)
Nominal pipe size	DN100 / 4 inch, schedule STD
Enclosure rating	IP66 / IP67
Modbus	✓
Remark	Option
Type of fieldbus integration	RTU RS-485
HART	✓
Diagnostics functions	Integrated device diagnosis Wet gas detection

Product description

Ultrasonic gas flow meter FLOWSIC30 is designed for use in natural gas production applications such as coal seam gas. The dual-path meter comes with a robust carbon steel meter body and full-titanium transducers. The ultrasonic measurement technology has no moving parts and is virtually maintenance free. The rugged design with integrated wires protects the meter from harsh ambient conditions while the large turn-down ratio typically covers all flow rates from a gas production well. FLOWSIC30 is equipped with integrated diagnostics that monitor the meter status and indicate the presence of liquids in the gas stream. With integrated pressure- and temperature measurement and volume conversion according AGA 8 it provides standard flow readings and reduces installation efforts. Power consumption of only 65 mW and the two-wire loop powered concept make integration easy while HART® and Modbus communication provide versatility in data transfer.

At a glance

- High turndown ratio
- Designed for wet gas applications
- Intelligent meter diagnostics incl. wet-gas detection
- Possibility for remote monitoring thanks to digital interfaces
- Two-wire-transmitter with digital HART® interface
- Full integration of pressure- and temperature measurement, volume conversion and energy flow rate calculation

Your benefits

- No plate changes required - one gas flow meter for the complete well lifetime
- No pressure loss - due to ultrasonic measurement principle
- Optimum availability - almost wearfree operation, no liquid build up in the meter and the possibility of remote monitoring
- Highly reliable - continuous measurement even under challenging process conditions
- Long service life - wet gas capable ultrasonic sensors made of titanium
- Full process control and predictable service - due to intelligent meter diagnostics
- Low installation efforts - integration of pressure- and temperature measurement, HART®-interface and commissioning assistant

Fields of application

- Wellhead metering in coal seam gas production
- Natural gas measurement up- and downstream of separators
- Replacement of orifice measurements

Ordering information

Other models and accessories ➜ www.sick.com/FLOWSIC30

- **Product segment:** Flow measurement technology
- **Product family group:** Gas flow meters
- **Product family:** FLOWSIC30
- **Measurement principle:** Ultrasonic transit time difference measurement
- **Measured values:** gas volume s. c., gas volume a. c., volumetric flow s. c., volumetric flow a. c., gas pressure, gas temperature, sound velocity, methane content, energy flow rate
- **Number of measuring paths:** 2
- **Measuring medium:** coal seam gas, natural gas, methane
- **Ex area category:** 2G, Gb
- **Communication interface:** Modbus, HART
- **Communication Interface detail:** RTU RS-485
- **Process temperature min.:** ≥ –10 °C

Process temperature max.	Operating pressure min.	Operating pressure max.	Enclosure rating	Type	Part no.
≤ +80 °C	≥ 0 bar (g)	≤ 19.6 bar (g)	IP66 / IP67	FLOWSIC30	On request

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