



FLOWSIC600 DRU

Ultrasonic gas flow meter for upstream applications

GAS FLOW METERS

SICK
Sensor Intelligence.



Technical data overview

Measured values	Volumetric flow a. c., volume a. c., gas velocity, sound velocity
Measurement principle	Ultrasonic transit time difference measurement
Number of measuring paths	2
Hazardous area	Class I Division 1 Class I Division 2
Measuring ranges	Measuring ranges depend on nominal pipe size
Gas temperature	-40 °C ... +85 °C
Operating pressure	0 bar (g) ... 102 bar (g) At 38 °C 0 bar (g) ... 95 bar (g) At 85 °C
Nominal pipe size	3" / 4" / 6" Schedule 80
Enclosure rating	IP66 / IP67
Corrective functions	Integrated device diagnostics and enhanced diagnostics via MEPAFLOW600 CBM software

Product description

The innovative FLOWSIC600 DRU gas flow meter for upstream applications based on the FLOWSIC600. With a measuring range of up to 150:1¹, the FLOWSIC600 DRU also covers flow ranges that previously required several orifice plates. Low manufacturing tolerances and wet-gas tolerant ultrasonic sensors ensure consistently low measurement uncertainty, even under challenging conditions. SICK therefore makes it possible to skip the otherwise common cost-intensive high-pressure flow calibration. The FLOWSIC600 DRU enables real-time diagnostics of devices and processes and is virtually maintenance-free - even with high liquid loads.

¹ Increasing measurement uncertainty at flow speeds of less than 0.9 m/s.

At a glance

- Wide measuring range that covers the measuring ranges of several orifice plates
- Precision manufactured 10D inlet piping included
- Accuracy of $\pm 1\%$ - no high pressure flow calibration required
- Capable of remote diagnostics
- Design for wet gas applications
- New diagnostic feature - wet gas detection
- Low maintenance

Your benefits

- Low initial investment - precise measurement without an expensive high-pressure flow calibration
- Low subsequent investments - no costly measurement station upgrades or orifice plate changeovers thanks to the wide measuring range
- Lower operating costs - long maintenance-free operation, and servicing only when required as indicated by remote diagnostics
- High reliability thanks to real time monitoring of all device diagnostics data
- Extended process monitoring with unique wet gas detection feature
- Better measurement accuracy than orifice measurements under wet gas conditions
- Long service life thanks to the moisture- and contamination-resistant encapsulated ultrasonic sensors

Fields of application

- Natural gas measurement in gas production
- Gas flow meter for well pads with multiple bores
- Allocation and verification measurements
- Measurement on VRUs
- Measurement on test and production separators
- Alternative to orifice plates

Ordering information

Other models and accessories → www.sick.com/FLWSIC600_DRU

- **Product segment:** Flow measurement technology
- **Product family group:** Gas flow meters
- **Product family:** FLOWSIC600 DRU
- **Measurement principle:** Ultrasonic transit time difference measurement
- **Measured values:** volumetric flow a. c., volume a. c., gas velocity, sound velocity
- **Number of measuring paths:** 2
- **Process temperature min.:** ≥ -40 °C

Process temperature max.	Operating pressure min.	Operating pressure max.	Enclosure rating	Type	Part no.
≤ +85 °C	≥ 0 bar (g) ≥ 0 bar (g)	≤ 102 bar (g) ≤ 95 bar (g)	IP66 / IP67	FLWSIC600 DRU	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