



## FLOWSIC550

HIGH PRESSURE GAS FLOW METER FOR NATURAL GAS  
DISTRIBUTION

GAS FLOW METERS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Measured values</b>	Volume a. c., volumetric flow a. c., gas velocity, volume s. c. (*), volume flow under s.c. (*)
<b>Measurement principle</b>	Ultrasonic transit time difference measurement
<b>Hazardous area</b>	NEC/CEC (US/CA): Class I Division 1, Groups C, D T4 NEC/CEC (US/CA): Ex ia [ia Ga] IIB T4 Gb NEC/CEC (US/CA): Class I, Zone 1 AEx ia [ia Ga] IIB T4 Gb
<b>Gas temperature</b>	-40 °C ... +70 °C
<b>Operating pressure</b>	ANSI300 (ASME B16.5): 5 bar (g) ... 48.6 bar (g) ANSI600 (ASME B16.5): 5 bar (g) ... 97.2 bar (g) Pressure ranges valid for natural gas, meter operation possible at ambient pressure for air
<b>Conformities</b>	OIML R 137-1&2:2012 AGA 9, 2022
<b>Enclosure rating</b>	IP66
<b>Modbus</b>	✓
Remark	2x
Type of fieldbus integration	RTU RS-485 (Fed)
<b>Corrective functions</b>	Volume correction
<b>Diagnostics functions</b>	Permanent monitoring of measured values

### Product description

The cutting-edge technology for natural gas measurement: The new FLOWSIC550 ultrasonic compact gas meter from SICK ensures highly accurate metering for low volume at high pressures in gas distribution - a perfect addition to FLOWSIC500. In absence of mechanical moving parts, the FLOWSIC550 is a robust, fail-safe and low-maintenance device - allowing for a significant reduction in operating costs. It is overload-proof, accurate and is monitored by an intelligent diagnostics system. FLOWSIC550 can easily be integrated into existing measuring stations. The FLOWSIC550 operates either in an energy self-sufficient configuration or in network operation. When utilized in transfer and measuring stations, FLOWSIC550 ensures a continuous and blockage free gas supply.

### At a glance

- Rugged and time-proven ultrasound technology
- Diagnostics and permanent operational self-monitoring
- Durable and reliable without moving parts
- Compact meter installations
- Integrated volume correction
- Battery or intrinsically safe power supply
- Bluetooth Low Energy (BLE)

### Your benefits

- Ultimate measurement certainty and safety of continuous gas supply
- Simple installation, replacement of turbine gas meters
- Reduction of installation costs due to integrated volume correction
- Easy Commissioning and data reading via FLOWgate™ (PC and App)
- Minimal operating costs due to being nearly maintenance-free
- Reliable even when the gas flow fluctuates (on/off applications)
- Self-sufficient operation possible

## Fields of application

- Gas Measurement of low volume applications at high pressures
- Custody transfer: gas distribution, storage, and transmission systems
- Town border stations and city gate stations
- High pressure industrial gas measurement
- Compressor fuel gas measurement
- Applications where a continuous gas supply must be ensured

## Ordering information

Other models and accessories → [www.sick.com/FLWSIC550](http://www.sick.com/FLWSIC550)

- **Product segment:** Flow measurement technology
- **Product family group:** Gas flow meters
- **Product family:** FLOWSIC550
- **Measurement principle:** Ultrasonic transit time difference measurement
- **Measured values:** volume a. c., volumetric flow a. c., gas velocity, volume s. c.<sup>(\*)</sup>, volume flow under s.c.<sup>(\*)</sup>
- **Measuring medium:** natural gas (dry, odorized)
- **Conformities:** OIML R 137-1&2:2012, AGA 9, 2022
- **Communication interface:** Modbus
- **Communication Interface detail:** RTU RS-485
- **Process temperature min.:** ≥ -40 °C

Process temperature max.	Operating pressure min.	Operating pressure max.	Enclosure rating	Type	Part no.
≤ +70 °C	≥ 5 bar (g) ≥ 5 bar (g)	≤ 48.6 bar (g) ≤ 97.2 bar (g)	IP66	FLWSIC550	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](http://www.sick.com)