



Gas flow measuring devices
Ultrasonic gas flow meter, FLOWSIC600

FLOWSIC600 Bio



Model Name > [FLWSIC600 Bio](#)



SICK ultrasound technology makes the measurement of biogas reliable and effective for your biogas plant. No matter whether the gas is raw and freshly produced or dried and purified or readily upgraded for the injection into the natural gas grid. FLOWSIC600 Bio provides the operators of biogas production plants with valuable and reliable information for the optimization and control of processes. The sealed titanium transducers of the FLOWSIC600 Bio are build into a meter body made from low weight polyethylene (PE) - an ideal material for biogas environments.

At a glance

- Flow measurement for biogas plants
- Durable, reliable, low maintenance
- Lightweight meter body made from polyethylen (PE100)
- Non-corrosive materials, anti-stick surface
- Measurement in wet and corrosive gases
- Process measurement with an uncertainty of $\pm 1.5\%$
- Version for ATEX-zone 1 and -zone 2 available
- Installation in PE and stainless steel piping possible

Your benefits

- The advantages of ultrasonic gas flow measurement adapted to the special application conditions of biogas plants
- Measuring devices based on ultrasound technology can be applied in all process stages between fermentation and injection into natural gas grids
- Low maintenance costs
- No pressure drop

Fields of application

- Production of biogas, sewage gas, landfill gas or sludge gas in all non fiscal process stages
- Dry, wet and corrosive gases (H₂S)
- Piping sizes DN80 - DN400 (3 – 16)
- Low pressure and low flow applications
- Biogas production stages where mechanical flow meters (e.g. turbine meters) quickly fail
- Applications where a pressure drop is not acceptable

Note

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

Technical data

Measurement principle:	Ultrasonic transit time difference measurement
Measured values:	Gas velocity Sound velocity Volume a. c. Volumetric flow, a. c.
Max. number of measurands:	2
Measuring ranges:	Volumetric flow, a. c.: 12 ... 1,000 m ³ /h / 120 ... 14,000 m ³ /h
Comment:	Measuring ranges depend on nominal pipe size
Process temperature:	-20 ... +60 °C
Process pressure:	0 ... 4 bar (g)
Nominal pipe size:	3 ... 16 " (DN 80 ... DN 400)
Ex-approvals ATEX:	II 2G Ex de ib [ia] IIa T4
Electrical safety:	CE
Enclosure rating:	IP 65
Analog outputs:	1 output: 4 ... 20 mA, 250 Ω active/passive, electrically isolated
Digital outputs:	3 outputs: 30 V, 100 mA passive, electrically isolated
Interfaces:	RS-485
Operation:	Via meter display and software MEPAFLOW600
Device version:	2-path version

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