Non-invasive gas flow measurement with FLEXIM® means:

- No process interruption for installation, neither for later maintenance or recalibration.
- High accuracy and stability.
- No zeroing necessary.
- Long life time.
- Permanent transducer coupling – no maintenance needed. Internal pipeline pig inspections do not require any modification on the measuring system installed outside.
- High pressure and can face various shortcomings – such as unsatisfactory measuring dynamics, suffering from wear and tear, potential for leaks, etc.
- No maintenance – virtually maintenance-free. Internal pipeline pig inspections do not require any modification on the measuring system installed outside.
- As the clamp-on transducers are installed during ongoing operation, the installation costs are significantly lower than with fixed devices. The accurate measuring equipment is not subjected to wear and tear which means it is particularly maintenance-free. Several pipeline pig inspections do not require any modification on the measuring system installed outside.
- Internal pipeline pig inspections do not require any modification on the measuring system installed outside.
- Every measurement system is calibrated in house.
- ± 0.5% of reading, ± 0.01 m/s (liquids and gases).
- FLUXUS’s transducers automatically compensate for ambient temperature changes – according to ANSI/ASME MFC-5.1-2011. This prevents false measurement data in “Surge Points”. The embedded transducer compensator calculates and applies the potential temp. change and thus transmits error-free results.
- FLUXUS’s solutions are based on transmitting and measuring technologies independently of any medium and environmental conditions. The accuracy claims can seem conservative but we firmly believe that clients expect us to deliver what we promise. High accuracy and proven laboratory performance under reference conditions is one of many features of the FLEXIM® FLUXUS gas flow meters.
- FLUXUS® gas flow meters: high zero point and flow measurement stability, long term stability even under roughest conditions, no need for frequent work in hazardous areas.
- Technical facts:
- Temperature ranges:
  - -40 °C to +80 °C (for liquefied gases down to -200 °C)
  - Flow velocity:
  - ± 0.5% of reading, ± 0.01 m/s (liquids and gases)
- Communication protocols:
  - RS485
  - HART
  - Modbus RTU
  - Foundation Fieldbus
  - Profinet PA
- Communication approvals:
  - Hazardous area
  - IP65/IP66; Transducers up to IP68
- Pipe sizes (OD):
  - 7 mm to 1600 mm
- Repeatability:
  - ± 0.5% of reading, ± 0.01 m/s (liquids and gases)
- Flow measurement accuracy:
  - The superior solution
  - Non-intrusive ultrasonic gas flow measurement with FLUXUS® G
  - Accurate – Reliable – Robust – Safe

FLUXUS® measures flow rates non-invasively with ultrasound. Clamp-on ultrasonic transducers are simply mounted on the outside of the pipe. The practical advantages are obvious: no wear and tear by the medium flowing inside the pipe, no risk of leakage and fugitive gas emissions, no pressure loss and, above all, never any interruption of production or supply.

Conventional wetted measuring technologies, e.g. differential pressure meters, are exposed to specific challenges such as high maintenance and recalibration costs, as well as the requirement of process interruption for installation, which is not always possible. Ultrasound technology offers an ideal solution as it operates non-invasively and allows measurements to be carried out without any interference with the pipeline or the process. FLUXUS® clamp-on ultrasonic transducers measures flow rates with the superior accuracy and long life time guarantees. FLUXUS® clamp-on ultrasonic gas flow meters can be easily installed on the outside of the pipe. The practical advantages are obvious: no wear and tear by the medium flowing inside the pipe, no risk of leakage and fugitive gas emissions, no pressure loss and, above all, never any interruption of production or supply.

FLUXUS is the world’s only provider of clamp-on ultrasonic systems for non intrusive flow measurement with GL2 certification.

Non-intrusive Natural Gas Flow Measurement

Upstream – Midstream – Downstream.

For more detailed information, please visit our website at www.flexim.com.
**Lab. Accuracy under Field Conditions**

High accuracy assignments for laboratory and field conditions are one task. Accuracy under field conditions is quite another thing. FLEXIM transducers are matched in specific groups for various temperature and pressure conditions and temperature measurement during temperature cycling 

<table>
<thead>
<tr>
<th><strong>Temperature range</strong></th>
<th><strong>Relative uncertainty</strong></th>
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</thead>
<tbody>
<tr>
<td>-10 °C to +40 °C</td>
<td>± 0.2% of reading, ± 0.01 m/s (liquids and gases)</td>
</tr>
<tr>
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<td>± 0.5% of reading, ± 0.01 m/s (liquids and gases)</td>
</tr>
<tr>
<td>-50 °C to +150 °C</td>
<td>± 1% ... 3% of reading, ± 0.01 m/s (application dependent)</td>
</tr>
</tbody>
</table>

**FLEXIM’s non-invasive gas flow measurement with FLUXUS® means:**

- No process disruption for installation, neither for later maintenance or recalibration.
- High efficiency:
  - Zero measuring costs and maintenance costs.
  - Independent of flow direction (bidirectional).
  - Flexibility Flow measurement over a high measuring range, ranging from max. meter width or maximum temperature and pressure conditions. It can be measured even through pipelines that are being in use and in operation even with high pressures and temperatures.
  - Reliable non-invasive ultrasonic technology measure given that the narrowly defined measurement uncertainties are always observed, regardless of which transducers are used with which transmitter.
- Automatic zeroing by microprocessor reads the individual calibration data, avoiding potential errors and making zeroing of zero offset and facilitating the transducer exchanges easy.
- FLEXIM’s ultrasonic transducers and measuring transducers independently work at a high accuracy and are not subjected to any long-term changes. This process lays the foundation for superior accuracy over a wide measuring range and temperature and pressure conditions, which is required in the chemical industry to compressed air flows in industrial production. The outside measuring technology is not subject to wear and tear, which means it is practically maintenance-free. Internal pipeline pig inspections do not require any modification on the measuring system installed outside.

**FLEXIM® or FLEXIM® SIL 2 capable**

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<th><strong>Technical facts</strong></th>
<th><strong>Data sheet</strong></th>
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Non-invasive Natural Gas Flow Measurement

**Upstream – Midstream – Downstream**

**FLEXIM® measures flow rates even with vacuum:**

- Clamp-on ultrasonic transducers are simply mounted on the outside of the pipe. The total measuring range is obvious: no need for any reduction by the medium inside the pipe, no need for changes or heighten gas measurements, as processing, heating, or cooling of the gas does not interfere with the transducer readings.

- Convincing standard measuring technologies, e.g. differential pressure meters, are exposed to specific challenges such as heighten and cool down that cause inaccuracy. With FLEXIM’s ultrasonic technology, the gas flow is measured on the outside of the pipe and not only on the inside. Thus, the measuring energy from the variable with FLEXIM® non-invasive ultrasonic technology can be the superior solution.

**Leading Technology**

We all FLEXIM® are particularly proud of our processing unit and our unique technology. FLEXIM’s non-invasive technology is the leading technology in the non-invasive field as it allows measuring gas flow rates, mass flow rates, temperatures, etc. with a stable accuracy even in circumstances like significant pressure drops, fluctuations of gas flow rates, temperature changes, etc.

FLEXIM® is the world’s only provider of clamp-on ultrasonic systems for non-invasive flow measurement with SIL 2 certification.
Non-intrusive natural gas flow measurement with FLUXUS® G

Accurate – Reliable – Robust – Safe

FLUXUS® G measures flow rates in transmission with ultrasonic. Clamp-on ultrasonic transmitters are simply mounted on the outside of the pipe. The post-installation advantage is obvious: no need to enter the medium inside the pipe, no risk of leaks or fugitive gas emissions, no pressure loss and, above all, never any interruption of production or supply.

Conventional metering technologies, e.g. differential pressure meters, are exposed to specific challenges such as high cost and frequent maintenance due to a high degree of wear and tear, resulting in a need for frequent zeroing, or programmed shutdowns for maintenance.

The superior solution

Leading Technology

We are FLUXUS® G are particularly proud of our pioneering work carried out to transfer clamp-on ultrasonic technology to the non-invasive flow measurement of gases. Today, our ultrasonic gas flow measurement systems FLUXUS® G stand their ground in virtually every application – from high-pressure natural gas, through ammonia gas in refrigeration plants and from high-temperature process gases in the chemical industry to compressed air flows in industrial production.

Non-intrusive Natural Gas Flow Measurement

Upstream – Midstream – Downstream

Technical facts

Temperature range: -20°C to +60°C, for liquid phase down to -20°C

Flow range: 0.01 - 35 m/s

Repeatability: 0.15% of reading, ± 0.01 m/s (liquids and gases)

Resolution: 0.01 m/s

Flow direction: +3% for flow measurement, -3% for flow measurement

Protection degree: IP65/IP66

Compliance: ISO 5167, EN 877

Conformity: CE, ATEX, IECEx Zone 1 and 2, FM Class I, Div. 1 / 2

FLEXIM Sensor

FLEXIM Sensor-00

FLEXIM Sensor-11

FLEXIM Sensor-22

FLEXIM Sensor-33

FLEXIM Sensor-44

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FLEXIM Sensor
Wellsite Gas Flow Measurement

- Astoundingly robust for use in any environment
- No pressure losses
- No HSE component due to ease of installation
- Ideal solution for gas measurement in the harshest environments, including offshore applications

Wellhead Gas Flow Measurement

- Suitable for odoriser dosing measurements at extremely low pressure levels
- Ideal for offshore applications with minimal need for maintenance

Pipeline Flow Monitoring

- Reliable, bidirectional flow measurement at large operating extremes
- No pressure losses
- Accurate and reliable flow measurement over a wide turndown range
- Applicable to all gases, liquids and slurries

Flow Direction Monitoring

- Dual ultrasonic flow measurement system
- Easy and collision-resistant installation
- Simple, reliable and robust design

Gas Injection and Gas Lift

- Adapted flow measurement independent of pipe dimensions
- Robust and reliable in demanding environments
- No maintenance required

Compressor Stations

- Robust flow measurement system
- High durability
- Simple installation without interruption of the gas supply

Underground Gas Storage – Gas Injection and Withdrawal

- Accurate and reliable flow measurement over a wide turndown range
- No pressure losses
- Calibrated suitably for all gases, liquids and slurries

Check Metering

- Highly accurate flow measurement in a wide range of conditions
- Easy to install and commission
- No leakage risk

Medium Pressure Networks

- Simple installation without interruption of the gas supply
- Suitable for medium pressure gas networks
- No problems with regard to corrosive gasses

Gas Dehydration

- Efficient dehydration processes by online flow and volume measurement
- Simple installation without interruption of the gas supply

Gas Treatment

- Accurate and reliable flow measurement independent of pipe dimensions
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Flow Direction Monitoring

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- Easy and collision-resistant installation
- Simple, reliable and robust design

Gas Injection and Gas Lift

- Adapted flow measurement independent of pipe dimensions
- Robust and reliable in demanding environments
- No maintenance required
Distribution

- Simple installation without interruption of the gas supply.
- Subsurface: Rørbased installation possible without any problems. This reduces the risk of gas leakage and increases plant availability.
- No pipeline corrision due to the inductive measurement principle.
- No leakage risk through the measurement system.

Odour Stations
- Monitoring stations for pipe and valves - no need for extra equipment.
- Compact, lightweight and transportable design.
- No interruption of the pipeline is necessary to install.
- No additional costs due to special installation equipment.
- No leakage points due to the inductive measurement principle.

Medium Pressure Networks
- No flow meters for high pressure levels or large nominal widths, any pipeline downtime - Cathodic corrosion protection is not affected
- Large turndown range and thick walled pipes (up to 35 mm)
- No pipework necessary for installation
- Easy retrofitting possibilities for existing pipeline networks

Related Applications & Flow Surveys
- FLEXIM’s FLUXUS® G608 goes where other measuring devices can't. It is the only all purpose portable clamp-on ultrasonic system for flow measurement of gases as well as liquids.
- Large application range. Our permanent and portable solutions also handle Cryo Medium Pressure Networks.
- No extra costs due to special installation equipment.
- No pipework necessary for installation
- Easy retrofitting possibilities for existing pipeline networks

Go for gas!

FLEXIM’s FLUXUS® G608 ultrasonic flow meter, is a wide range ultrasonic flow meter with high accuracy and stability. Our solution is used in a variety of applications, including oil, gas and water. It is also certified for use in hazardous areas (ATEX, IECEx Zone 2 and FM Class I, Div. 2). For more information, visit our website.
Welshgas Flow Gas Measurement - Extremely robust for all areas of the operation. - No pressure losses. - No loss in control signals and independence from noise. - Ideal solution for all gas measurements in the measurement systems in uncontrolled and the gas industry. - Easy retrofitting possibilities for individual solutions. - Measurement system can be installed in any location at any time. Gas at the Separator Outlet - Dependable, reliable and accurate gas flow measurement with no interruption of the process. - High accuracy - no loss in accuracy at high liquid fractions or at high pipe temperatures. - Gas Injection and Gas Lift - Easy maintenance and independent of pipe and experimental conditions. - No process downtime for installation of the ultrasonic flow measurement system certified for use in demanding conditions. - A permanently installed and portable solutions can’t. It is the only all purpose portable clamp-on ultrasonic system for flow measurement of gases as well as liquids. FLEXIM’s FLUXUS G608 goes where other measuring devices can’t. It can measure a variety of other liquid and gaseous media such as: - Piggable - Liquid Hydrocarbon Products (flow and media detection) - Compressed air - Nitrogen, etc. - No mechanical wear or tear of the flow meter - High turndown ratio and broad measurement range - Ideal measurement solution for corrosive and toxic applications. - G608 for gas! - Go for gas!
Non-intrusive Natural Gas Flow Measurement

Upstream – Midstream – Downstream.

FLEXIM’s transducer series are versatile and reliable. Clamp-on ultrasonic transducers are simply mounted on the outside of the pipe. They provide accuracies on a par with intrusive meters and are fully maintenance-free. They are non-invasive, thus avoiding the need for zeroing, or programmed zero settings. The superior solution

Technical facts

| Temperature range: | -15°C to +60°C for liquid phases down to 20°C | ±5°C | ±1°C |
| Flow range: | 0.15 m/s to 30 m/s | 0.01 m/s | 0.001 m/s |
| Repeatability: | ±0.1 m/s to ±0.5 m/s | ±0.01 m/s | ±0.005 m/s |
| Flow direction: | Accuracy: | ±1% ... 3% of reading, ±0.01 m/s (application dependent) |
| | Repeatability: | ±0.5% of reading, ±0.01 m/s (liquids and gases) |
| | Non-invasive technology, not exposed to wear and tear | ±1% ... 3% of reading, ±0.01 m/s (application dependent) |
| | Robust and completely unaffected by solid particles in the gas flow |

External Excellence and Efficiency

FLEXIM’s non-invasive gas flow measurement with FLUXUS® G combines the excellent bidirectional measurement performance of wetted ultrasonic measuring systems with the advantages of clamp-on measuring technology. Measuring from the outside does not affect the process or pipeline integrity. The measurement is performed non-invasively, i.e. no data is missing when the pipe is closed or shut down. The meter can be effectively used in existing applications, as well as with new devices. The acoustic measuring equipment is not subjected to wear and tear, which means it is particularly maintenance-free. Internal pipe fluid pressures do not require any modification on the measuring system. Wall hole and nozzle technology is no longer needed.

Non-intrusive gas measurement with FLEXIM means:

- No process interruption for installation, neither for later maintenance
- High efficiency
- Easily adaptable to various applications
- Reduced installation and maintenance costs
- Independent of line sizes
- Easy integration of existing process
- Flexible measurement over a high measurement range, ranging from mass flow meters for large pipelines, midrange flow meters for medium-sized pipelines, to mass flow meters for small pipelines
- High accuracy with systematic repeatability
- Non-invasive gas flow measurement
- Pressure losses – no energy losses
- FLEXIM’s transducers are carefully paired according to their individual properties.
- Robust stainless steel transducer mountings ensure permanent transducer coupling – no maintenance required.
- >3 bar for gases in steel pipes; plastic pipes no limitation
- Portable measuring systems available for temporary measurements
- No potential for leaks
- Highly cost effective:
- Highly robust and completely unaffected by solid particles in the gas flow
- FLEXIM’s transducers are all individually factory calibrated, with storage of the calibration data on a "Sensprom"chip. The calibrated transmitter automatically reads the individual calibration data, avoiding potential errors and making transducer exchanges easy.
- ±0.01% of reading, ±0.001 m/s (liquids)
- ±0.01% of reading, ±0.01 m/s (gases)
- No pressure losses, no energy losses
- Precise flow measurement over a high measuring range,
- ±0.5% of reading, ±0.01 m/s (liquids and gases)
- ±1% ... 3% of reading, ±0.01 m/s (application dependent)

Coating
- ATEX, IECEx Zone 1 and 2, FM Class I, Div. 1 / 2
- IP65/IP66; Transmitters up to IP68

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Leading Technology

We at FLEXIM are particularly proud of our pioneering work and lead the way in clamp-on ultrasonic technology when it comes to non-intrusive natural gas flow measurement. Today, our ultrasonic gas flow measurement systems FLUXUS® G stand their ground in any environment, whether it be industrial, commercial or private. Robust and reliable, measuring efficiency from the variable with FLEXIM’s non-intrusive ultrasonic technology is the superior solution.

FLEXIM is the world’s only provider of clamp-on ultrasonic systems for non-invasive flow measurement with GL2 certification.