Safe and efficient by principle

As the ultrasonic clamp-on transducers are simply mounted onto the pipe wall outside, the measurement does not require any pipe modifications and does not impair plant availability. With no direct media contact any potential for leaks can be ruled out, offering highest operational safety.

Measurement data you can rely on

With 30 years of engineering experience, FLEXIM sets standards in the field of clamp-on flow measurement.

- Benchmarking digital signal processing and evaluation capabilities (up to 1000 measurement signals per second)
- Separating calibrated transmitters and transducer parts based on patented aperture calibration for highest possible accuracy of the measuring system.
- Matched and paired transducers ensuring zero offset and superior low flow performance.
- Integrated transducer temperature compensation (acc. to ANSI/ASME, temperature range: -40 °F to +460 °F; Steam: +275 °F to +355 °F)
- 2 x 4-20 mA (active/passive), 2 x binary
- Proportional and digital outputs (Compressed Air)
- 0.15% of reading ±0.02 ft/s
- ±1% of reading ±0.02 ft/s
- FLUXUS
- ±1% of reading ±0.02 ft/s
- Integrated transducer temperature compensation (acc. to ANSI/ASME, temperature range: -40 °F to +460 °F; Steam: +275 °F to +355 °F)
- 2 x Temp. Pt100 / Pt1000 RTD
- 4 x Temp. Pt100 / Pt1000 RTD
- 0.15% of reading ±0.02 ft/s
- ±1 to 3% of reading ±0.02 ft/s
- Volumetric flow rate, mass flow rate, flow velocity, heat flow rate, energy
- Steam: 0.03 to 115 ft/s (dependent on pipe diameter)
- Liquids: 0.03 to 82 ft/s
- Gases & Steam: 0.03 to 180 ft/s
- MFC-5.1-2011 regulations, for stable measurements independent of changing ambient temperatures.
- Two channels for reliable measurements at challenging applications or simultaneous measurement of two pipes.
- Built-in Noise Trek® Mode for accurate and reliable measurements of liquids with entrained solids or gases as well as internal wet gas compensation (up to LVF of 5%)
- 2 x 4-20 mA passive
- 2 x Temp. Pt100 / Pt1000 RTD
- 4 x Temp. Pt100 / Pt1000 RTD
- 0.23 inch to 22 ft
- 0.28 inch to 63 inches
- Benchmarking digital signal processing and evaluation capabilities (up to 1000 measurement signals per second)
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- 2 x 4-20 mA passive
- 2 x Temp. Pt100 / Pt1000 RTD
- 4 x Temp. Pt100 / Pt1000 RTD
- 0.23 inch to 22 ft
- 0.28 inch to 63 inches

Data evaluation made easy

In connection with FLEXIM’s elaborated FluxDiag Software, efficient measurement data evaluation, interpretation and recommendation is as easy as it can get. By downloading measurement data from the meter, FluxDiag offers statistical data analysis and extensive graphical visualization helping to gain in-depth understanding of the process.

With its excellent reporting options, it is the ideal tool to comply with industry standards for regular verification of existing meters and plant-wide flow audits.

FLEXIM has offices located throughout North America. Please have a look for your local representation at: www.flexim.com or call us at: 1-888-852-PIPE

Technical Data

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<th>Portable liquid flow meters</th>
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<td>Pipe size range (I.D.)</td>
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<td>Communication</td>
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<td>Modbus RTU</td>
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</tbody>
</table>

Precise, flexible and versatile

FLUXUS® F/G60X Series

Portable ultrasonic flow measurement of liquids, thermal energy, gases, compressed air and steam

- DI & Gas
- Chemical & Petrochemical
- Water & Wastewater
- Power Generation
- HVAC
- Pharmaceutical
- Food & Beverage
- Semiconductor
- Mining
- General Production

FLEXIM

when measuring matters
Welcome to the most versatile and industry-proven portable flow meter

The FLUXUS® F/G60X portable flow meter series is the instrumentarium standard in many industries, ranging from the Oil & Gas and Chemical Industry to HVAC, Water & Wastewater, Food & Beverages, Pharma and many more. Independent of the environment and pipe conditions, it accurately measures:

- virtually any liquid – independent of viscosity and temperature (from as low as -310 °F up to +1100 °F) and even with solid or gaseous entrainments
- virtually any gas – independent of the pressurization, including compressed air and steam, and not affected by gas wetness (up to LVF of 5%) as well as thermal energy flow rates of liquid heat transferring media (water, heat transfer oils, etc.)

For liquids and gases: FLUXUS® F/G60X

When measuring gas filled pipes, the FLUXUS® G60X portable flow meter is the system of choice. Independent of the pipe's pressurization and with virtually no limitation in terms of measurable media – even wet gas isn’t a challenge – it is the perfect measuring solution for the oil & gas and chemical industry.

For liquids, thermal energy, gases and compressed air: FLUXUS® G60X CA Energy

Equipped with temperature and current inputs, the product variant FLUXUS® G60X CA Energy is the most versatile multi-tool for various measuring tasks: From monitoring liquid and thermal energy streams up to gas flow rates – including compressed air – it is the ideal portable measuring system for usage within the framework of plant wide industrial energy audits.

One for all – including steam: FLUXUS® G601 ST

As the world's only portable steam flow meter, the FLUXUS® G601 ST is the benchmark of non-invasive clamp-on ultrasonic flow measurement. Engineered for low pressure and low steam temperature applications, it is an ideal companion in various industries ranging from food & beverage to the pharmaceutical and chemical sector. Additionally, it also measures thermal energy and flow rates of virtually any liquid or gaseous medium.

Solutions for any flow metering application

The FLUXUS® F/G60X portable flow meter series are available in various variants, starting as a liquid flow meter up to a multifunctional meter for non-invasive measurement of liquids, heat flow rates and gases – even including compressed air and steam. Whereas the FLUXUS® F/G60X meter series is designed for non-hazardous area related applications, the FLUXUS® F/G60XE meter series is ATEX, IECEx Zone 2 (1) and FM Class 1, Div. 2 (1) certified, making them the world's only portable flow meters with hazardous area approvals.

The FLUXUS® F/G60X portable flow meters are the ideal tool for:

- Spot metering for continuous process optimization
- Check metering of existing stationary meters
- Temporary replacement of existing meters
- Plant wide flow and thermal energy audits
- Consumption monitoring
- Efficiency determination of pumps, heat exchangers, etc.

For liquids: FLUXUS® F60X

The standard FLUXUS® F60X portable liquid flow meter allows for the measurement of virtually any liquid media – from water over high viscosity oils to chemicals such as acids and caustics and up to slurries. In conjunction with the WaveInjector® transducer mounting, the meter can even measure at extreme pipe wall temperatures from as low as -310 °F up to +1100 °F.

For liquids and thermal energy flows: FLUXUS® F60X Energy

The FLUXUS® F/G60X Energy is the portable meter of choice for monitoring of thermal energy flow rates e.g. of balancing of chillers/heaters, optimization of heat exchangers, etc., making it a standard flow metering tool for HVAC applications as well as energy efficiency tasks in any kind of industrial environment.

In terms of media and applicable pipe wall temperature it offers the same possibilities as the standard FLUXUS® F60X portable meter.
Precise, flexible and versatile

FLUXUS® F/G60X Series

Portable ultrasonic flow measurement of liquids, thermal energy, gases, compressed air and steam

Safe and efficient by principle

As the ultrasonic clamp-on transducers are simply mounted onto the pipe wall outside, the measurement does not require any pipe modifications and does not impair plant availability. With no direct media contact any potential for leaks can be ruled out, offering highest operational safety.

Measurement data you can rely on

With 30 years of engineering experience, FLEXIM sets standards in the field of clamp-on flow measurement:

- Benchmarking digital signal processing and evaluation capabilities (up to 100 measurement signals per second)
- Separating calibrated transmitters and transducer pairs based on patented aperture calibration for highest possible accuracy of the measuring system
- Matched and paired transducers ensuring zero offset and superior low flow performance
- Integrated transducer temperature compensation (acc. to ANSI/ASME FTPS-5-2017 regulations), for stable measurements independent of changing ambient temperatures
- Two channels for reliable measurements at challenging applications or simultaneous measurement of two pipes
- Built-in Noise Trek® Mode for accurate and reliable measurements of liquids with suspended solids or gases as well as internal wet gas compensation (up to U.S. TMS)

Data evaluation made easy

In connection with FLEXIM’s elaborated FlowDiag Software, efficient measurement data evaluation, interpretation and recommendation is as easy as it can get. By downloading measurement data from the meter, FlowDiag offers statistical data analysis and extensive graphical visualization helping to gain in-depth understanding of the process.

With its excellent reporting options, it is the ideal tool to comply with industry standards for regular verification of existing meters and plant wide flow audits.

Technical Data

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<thead>
<tr>
<th>Portable Input Flow Devices</th>
<th>Portable Gas Flow Meters (G601 CA Energy only)</th>
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<tr>
<th>FLUXUS® F/G60X Series</th>
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FLEXIM AMERICAS Corporation
255-9 Executive Drive
Edgewood, NY 11717
Phone: (631) 492-2300

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Chemical & Petrochemical
Water & Wastewater
Power Generation
HVAC
Pharmaceutical
Food & Beverage
Semiconductor
Mixing
General Production

FLEXIM when measuring matters
Flow Measurement on the go

FLUXUS® F/G60X Series

Welcome to the most versatile and industry-proven portable flow meter

The FLUXUS® F/G60X portable flow meter series is the instrument standard in many industries, ranging from the Oil & Gas and Chemical Industry to HVAC, Water & Wastewater, Food & Beverages, Pharma and many more. Independent of the environment and pipe conditions, it accurately and reliably measures:

- virtually any liquid – independent of viscosity and temperature (from as low as -310 °F up to +1100 °F) and even with solid or gaseous entrainments
- virtually any gas – independent of the pressurization, including compressed air and steam, and not affected by gas wetness (up to LVF of 5%) as well as thermal energy flow rates of liquid heat transferring media (water, heat transfer oils, etc.)

Fit for industrial purpose

With the transmitter residing in a sturdy housing and the transducers and cables being stainless steel armored, FLUXUS® F/G60X offers unrivalled durability for long-term stable flow measurements. Its internal battery allows for up to 25 hrs. of autonomous measurement.

Moreover, based on special FM Class I, Div. 2 and ATEX, IECEx Zone 2 certified variants, time consuming hot work permits are a thing of the past.

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The FLUXUS® F/G60X portable flow meter series is the instrumentation standard in many industries, ranging from the Oil & Gas and Chemical Industry to HVAC, Water & Wastewater, Food & Beverages, Pharma and many more. Independent of the environment and pipe conditions, it accurately and reliably measures:

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Solutions for any flow metering application

The FLUXUS® F/G60X portable flow meters are available in various variants, starting as a liquid flow meter up to a multifunctional meter for non-invasive measurement of liquids, heat flow rates and gases – even including compressed air and steam. Wherein the FLUXUS® F/G60X meter series is designed for non-hazardous area related applications, the FLUXUS® F/G608 meter series is ATEX, IECEx Zone 2 (1) and FM Class 2, Div. 2 (1) certified, making them the world’s only portable flow meters with hazardous area approved.

The FLUXUS® G60X portable flow meters are the ideal tool for:

- Spot metering for continuous process optimization
- Check metering of existing stationary meters
- Temporary replacement of existing meters
- Plant wide flow and thermal energy audits
- Efficiency determination of pumps, heat exchangers, etc.

For liquids: FLUXUS® F60X

The standard FLUXUS® F60X portable liquid flow meter allows for the measurement at virtually any liquid media – from water through highly viscous oils to chemicals such as acids and caustics and up to slurries. In conjunction with the WaveInjector® transducer mounting, the meter covers measurement of extreme pipe wall temperatures from as low as -310 °F up to +1100 °F.

For liquids and thermal energy flows: FLUXUS® F60X Energy

The FLUXUS® F60X Energy is the portable meter of choice for monitoring of thermal energy flow rates e.g. balancing of chillers/heaters, optimization of heat exchangers, etc., making it a standard flow metering tool for HVAC applications as well as energy efficiency tasks in any kind of industrial environment.

In terms of media and applicable pipe wall temperature it offers the same possibilities as the standard FLUXUS® F60X portable meter.

For liquids and gases: FLUXUS® G60X

When measuring gas filled pipes, the FLUXUS® G60X portable flow meter is the system of choice, independent of the pipe’s pressurization and with virtually no limitation in terms of measurable media – even wet gas isn’t a challenge – it is the perfect measuring solution for the oil & gas and chemical industry.

For liquids, thermal energy, gases and compressed air: FLUXUS® G60X CA Energy

Equipped with temperature and current inputs, the product variant FLUXUS® G60X CA Energy is the most versatile tool for various measuring tasks: From monitoring liquid and thermal energy streams up to gas flow rates – including compressed air – it is the ideal portable measuring system for usage within the framework of plant wide industrial energy audits.

One for all – including steam: FLUXUS® G601 ST

As the world’s only portable steam flow meter, the FLUXUS® G601 ST is the benchmark of non-invasive clamp-on ultrasonic flow measurement. Engineered for low pressure and low steam temperature applications, it is an ideal companion in various industries ranging from food & beverage to the pharmaceutical and chemical sector. Additionally, it also measures thermal energy and flow rates of virtually any liquid or gaseous medium.

FLUXUS’s range of FLUXUS® G60X portable gas flow meters not only covers virtually any gaseous medium, they also include all liquid flow metering capabilities of the FLUXUS® F60X series meter series making them a truly comprehensive tool.
Welcome to the most versatile and industry-proven portable flow meter

The FLUXUS® F/G60X portable flow meter series is the instrumentarium standard in many industries, ranging from the Oil & Gas and Chemical Industry to HVAC, Water & Wastewater, Food & Beverage, Pharma and many more. Independent of the environment and pipe condition, it is accurate and reliable:

---

- virtually any liquid – independent of viscosity and temperature (from as low as -310 °F up to +1100 °F) and even with solid or gaseous entrainments
- virtually any gas – independent of the pressurization, including compressed air and steam, and not affected by gas wetness (up to LVF of 5%)
- thermal energy flow rates of liquid heat transferring media (water, heat transfer oils, etc.)

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The FLUXUS® F/G60X portable flow meter is the ideal tool for:

- Spot metering for continuous process optimization
- Check metering of existing stationary meters
- Temporary replacement of existing meters
- Plant wide flow and thermal energy audits
- Efficiency determination of pumps, heat exchangers, etc.

For liquids: FLUXUS® F60X

The standard FLUXUS® F60X portable liquid flow meter allows for the measurement of virtually any liquid media – from water right through to chemicals such as acids and caustics and up to slurries. In conjunction with the WaveInjector® transducer mounting, the meter allows even measurement of entire pipe wall temperatures from as low as -310 °F up to +1100 °F.

For liquids and thermal energy flows: FLUXUS® F60X Energy

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In terms of media and applicable pipe wall temperature it offers the same possibilities as the standard FLUXUS® F60X portable meter.
As the ultrasonic clamp-on transducers are simply mounted onto the pipe wall outside, the measurement does not require any pipe modifications and does not impair plant availability. With its direct-media contact any potential for leaks can be ruled out, offering highest operational safety.

Measurement data you can rely on

With 30 years of engineering experience, FLEXIM sets standards in the field of clamp-on flow measurement:

- Benchmarking digital signal processing and evaluation capabilities up to 1000 measurement signals per second
- Separating calibrated transmitters and transducer pairs based on patented aperture calibration for highest possible accuracy of the measuring system
- Matched and paired transducers ensuring zero offset and superior low flow performance
- Integrated transmitter temperature compensation (acc. to ANSI/ASME PTC-15-2017 regulations), for stable measurements independent of changing ambient temperatures
- Two channels for reliable measurements at challenging applications or simultaneous measurement of two pipes
- Build-in Noise Trek Mode for accurate and reliable measurements of liquids with entrained solids or gases as well as internal wet gas compensation up to LVF of 5%

Data evaluation made easy

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Precise, flexible and versatile

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Safe and efficient by principle

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- Two channels for reliable measurements at challenging applications or simultaneous measurement of two pipes
- Build-in Noise Trek Mode for accurate and reliable measurements of liquids with entrained solids or gases as well as internal wet gas compensation up to LVF of 5%

Hazardous area protection:

- Connected transducers up to FM Class I, Div. 1 and ATEX, IECEx Zone 1

Temperature range:

- Liquids: -40 °F to +460 °F; Steam: +275 °F to +355 °F
- Gases & Steam: -40 °F to +460 °F (with WaveInjector mounting: -250 °F to +1112 °F)

Flow velocities:

- Liquids: 0.03 to 82 ft/s
- Gases: 0.03 to 115 ft/s
- Steam: 0.03 to 180 ft/s

Pipe size range (I.D.):

- Liquids: 0.23 inch to 22 ft
- Gases & Steam: 0.28 inch to 63 inches

Communication:

- F608 product variant: Modbus RTU
- F60X product variant: Modbus RTU

Inputs:

- 2 x 4-20 mA (active/passive), 2 x binary

Outputs:

- 2 x 4-20 mA (active/passive), 2 x binary

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<tr>
<th>Portable input flow meters</th>
<th>FLUXUS/G601</th>
<th>FLUXUS/G602</th>
<th>FLUXUS/G603</th>
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Hazardous area protection:

- Connected transducers up to FM Class I, Div. 2 and ATEX, IECEx Zone 2 certified;
- F60X Energy – Compressed Air
- F601 CA – Energy
- F60X CA Energy

Reproducibility:

- Liquids: ±1% of reading ±0.02 ft/s
- Gases & Steam: ±1 to 3% of reading ±0.02 ft/s

Measurement uncertainty:

- Flow velocity: ±1% of reading ±0.02 ft/s
- Mass flow rate, flow rate, Volumetric flow rate, Energy: ±1% of reading ±0.02 ft/s
- Heat flow rate: ±1% of reading ±0.02 ft/s

Performance

- Liquids: <1% with solids, <0.5% with high viscous media, <0.2% with high viscous media and entrained gases
- Gases: ±3% of reading ±0.02 ft/s
- Steam: ±0.02 ft/s

Pipe size range (I.D.):

- Liquids: 0.23 inch to 22 ft
- Gases & Steam: 0.28 inch to 63 inches

FLUXUS® G60X

Portable gas and liquid flow meters

FLUXUS® F60X

Portable liquid flow meters

Portable gas and liquid flow meters

Technical Data

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<tr>
<th>Portable input flow meters</th>
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Hazardous area protection:

- Connected transducers up to FM Class I, Div. 1 and ATEX, IECEx Zone 1

Reproducibility:

- Liquids: ±1% of reading ±0.02 ft/s
- Gases & Steam: ±1 to 3% of reading ±.02 ft/s

Measurement uncertainty:

- Flow velocity: ±1% of reading ±0.02 ft/s
- Mass flow rate, flow rate, Volumetric flow rate, Energy: ±1% of reading ±0.02 ft/s
- Heat flow rate: ±1% of reading ±0.02 ft/s

Performace

- Liquids: <1% with solids, <0.5% with high viscous media, <0.2% with high viscous media and entrained gases
- Gases: ±3% of reading ±0.02 ft/s
- Steam: ±0.02 ft/s

Pipe size range (I.D.):

- Liquids: 0.23 inch to 22 ft
- Gases & Steam: 0.28 inch to 63 inches

Measurement of:

- Liquid flow, gas flow, mass flow, Energy
- Heat flow, Volumetric flow, Energy

For more information, please contact your local representative or visit www.flexim.com.