FLEXIM offers unparalleled performance and versatility.

FLEXIM meters offer a precise bidirectional flow measurement over a wide turndown ratio. This is especially important for low flow velocities during off peak times. The unique ability to measure extremely low flow and achieving the best zero stability on the market is due to carefully matched and paired transducers and sophisticated algorithms for digital signal processing.

In conjunction with the FLEXIM® FLUXUS® F401 and F601 portable meters, the FLEXIM® F501 is especially designed for serving common applications in the water and wastewater sector. It is capable of measuring at low flow velocities from 1” to 12” with NEMA 4X protected transducers and a FLEXIM® protected receiver enclosure. It offers over 24 hours of flow measurements that can be extended up to 7 days with an additional battery suitcase.

The FLEXIM® F721T is the portable meter for industrial environments allowing for flow measurement of extremely low flow velocities.

For permanent installations, FLEXIM engineered FLEXIM® FLUXUS® F501 and F721T series. The FLEXIM® F721T is the ideal solution for any water and wastewater applications from line sizes between 1.5 to 12 inches with particle loads up to 6% content by volume. For line sizes between 1 to 12 inches and any liquid medium, the FLEXIM® F721T series is the best out on the market.

The FLEXIM® F721T is also available as a special Low Flow meter engineered for accurate and reliable measurements in chemical applications with flow rates ranging from 0.5” to 1” inner diameter and flow velocities starting from as low as 1 gph.

Water and wastewater treatment is an important factor in safeguarding water resources. The challenge that operators are faced with is meeting the ever increasing stringent legislative requirements while at the same time reducing operational costs.

FLEXIM helps to meet these requirements by producing accurate and reliable measurements in demanding water and wastewater applications.

FLEXIM is the leader in ultrasonic flow measurement technology.

The flexibility to clamp-on to the outside of the pipe and accurately measure what is going through them helps our business partners optimize their water and wastewater treatment plants.

FLEXIM meters help to optimize:
- your water usage by providing an easy and comprehensive method to discover water loss.
- your wastewater streams and sewage collection systems by equalizing pump and lift station performance.

FLEXIM meters are perfectly suited for maintenance applications. Our range of portable and permanent meters are easily installed under flowing conditions and easily identify valve leaks and underperforming pumps. They are also the optimum solution for the replacement of failed inline meters without having to cut them out of the pipe.

FLEXIM turns data into information you can use. Our FluxDiag software makes data retrieval a snap. View and export flow measurements into useful information quickly and easily. The 721 family even allows you to set up and re-configure your meter remotely.

FLEXIM has experience on applications where others cannot operate, by applying advanced technology that enables the meter to start-up and operate where other ultrasonic meters have not been successful.

FLEXIM is an experienced partner for the water and wastewater industry.

---

FLEXIM AMERICAS
Corporation
250 V Executive Drive
Edgewood, NY 11717
Phone: (631) 492-2300

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

---

FLEXIM when measuring matters

---

External measurement of internal flow
The flow of water brings revenue.

Sustainability and responsibility are the new way that BIMBA M-36 reminds us that everyday water pumping out of the ground, or subjected in reservoirs at a price, and brings potential for revenue. Local governments are being called to effectively manage our water resources. An audit pruned with an accurate flow measurement is a leading method for ensuring sustainability in our drinking water systems. Additionally, municipalities are faced with the rate revenue sources. Accurate flow measurement is extremely important when it comes to ensuring that every drop is accounted for and improving revenue avenues.

FLUXUS offers the most reliable measurement system for water production, treatment and distribution. The flow of water brings revenue. Substantial under-reading of the flowrate. In order to identify real water losses promptly, the inflows of a supply system must be measured continuously. Pipes, ruptures, which require rapid isolation of the particular pipe section, can easily be identified by abnormal changes in flow behavior using appropriate measurement techniques.

Common applications in the water and wastewater sector:
- New plant construction
- Replacements on existing pipes
- Replacement of Venturi’s with limited turn down
- Distribution systems monitoring and water balancing
- Pump performance verification
- Leak detection and water loss prevention
- Flow control for chemical feed and dosing
- Safety evacuation, treatment and disposal
- Measuring system for emergency circuit control of valves
- Flow direction indicator
- High zero point stability - drift free
- Safe and durable underground installation without any special mounting fixture. Advanced monitoring systems use the FLUXUS® ultrasonic flow meter as a measure of the fluid’s velocity and the profile of the flow profile. The accuracy achieved is unrivalled. In media with higher solids content (>10%) such as sludges, where the ultrasonic signal becomes attenuated, FLUXUS® automatically switches to the integrated Instructed Tool Mode in which the flow is determined by the particles floating in the liquid and ensuring still an accurate and reliable measurement.

Advantages of FLUXUS®:
- Unparalleled accuracy and responsibility
- Easy and fast to install - no damages necessary
- Permanent and maintenance free external flow measurement
- Single and two-stream, noise reduction - fitting to existing pipelines - simple end-connections in other meter technologies
- High resolution barometers - absolute pipes and flow rates
- Very high point stability - drift free measurement - no measurement dropouts
- Calibrated in the factory, no need to calibrate on site
- Fully hygienic or no direct contact between the measuring system and the medium
- Reliable in pipelines leading - setting signs even on dirty glass fiber pipes
- Able to measure pulsating flows for accurate chemical dosing
- Virtually no straight pipe run required to follow inductive mounting configuration, compensating pressure drop
- Resistance to deposits on the pipe wall
- Safe and durable underground installation by means of IP68 (NEMA 6P) Transducers and the PERMALOK mounting fixture

Detecting substantial pipe breaks and small leaks

In order to identify real water losses promptly, the inflows of a supply system must be measured continuously. Pipes, ruptures, which require rapid isolation of the particular pipe section, can easily be identified by abnormal changes in flow behavior using appropriate measurement techniques.

Case study: Underground flow measurement points on drinking water lines

A considerable amount of work and effort is often involved when it comes to retrofittting existing pipelines of a drinking water supply system with flow measurement devices. In order to install a conventional magnetic flow meter, civil engineering work must first be carried out to expose the pipeline. FLUXUS® ultrasonic flow meters have proven to be a very cost and effective alternative to the otherwise expensive and labor-intensive approach. Normally, the volume flow rate is determined based on the transit-time difference method. The accuracy achieved is unrivalled.

FLUXUS® offers the most reliable measurement system for water production, treatment and distribution. The flow of water brings revenue. Substantial under-reading of the flowrate. In order to identify real water losses promptly, the inflows of a supply system must be measured continuously. Pipes, ruptures, which require rapid isolation of the particular pipe section, can easily be identified by abnormal changes in flow behavior using appropriate measurement techniques.
The flow of water brings revenue

**Advantages of FLUXUS®:**
- Uncompromised accuracy and responsibility
- Easy going to install - no on-site service necessary
- Permanent and maintenance-free: external flow measurement
- Single and cost-effective retrofitting existing pipelines – simple non-invasiveness in other water technology techniques
- High resolution - Ultrasonic non-intrusive and risk-free underground installations which means an interruption of supply
- In addition to its non-intrusive advantages, ultrasonic flow measurement is already an established standard measurement technology in the water sector. The compact and extremely sturdy Ultrasonic transducers are simply attached to the outside of the pipe.
- The site only has to be exposed for a short time in order to access the supply pipeline and is then back-filled immediately after installation.
- Permanent acoustic coupling and therefore maintenance-free measurement is ensured by the extremely solid PERMALOK mounting fixture
- Advanced monitoring systems use the FLUXUS® ultrasonic flowmeter as an measurement source, where the data is transferred to the process control system via a mobile radio link.

**Case study: Underground flow measurement points on drinking water lines**

A considerable amount of work and effort is often involved when it comes to retrofitting existing pipelines of a drinking water supply system with flow measurement devices.

In order to install a conventional magnetic flowmeter, civil engineering work must first be carried out to expose the pipeline for installation which means an interruption of supply.

In addition to its non-intrusive advantages, ultrasonic flow measurement is already an established standard measurement technology in the water sector. The compact and extremely sturdy Ultrasonic transducers are simply attached to the outside of the pipe. The site only has to be exposed for a short time in order to access the supply pipeline and is then back-filled immediately after installation.

Permanent acoustic coupling and therefore maintenance-free measurement is ensured by the extremely solid PERMALOK mounting fixture.

Advanced monitoring systems use the FLUXUS® ultrasonic flowmeter as a measurement source, where the data is transferred to the process control system via a mobile radio link.

**Advantages:**
- Replacement non-intrusive flow measurement
- Durable measuring device with IP68 transducers and robust mounting fixtures
- Underground installation without any expensive vault construction

**Detecing substantial pipe breaks and small leaks**

In order to identify real water losses promptly, the inflows of a supply system must be monitored constantly.

Pipe ruptures, which require rapid isolation of the particular pipe section, can easily be identified by abnormal changes in flow behavior using appropriate measurement technologies.

**Common applications in the water and wastewater sector**

- New plant construction
- Retrofit on existing pipes
- Replacement of Venturi's
- Redistribution circuit control of valves
- Flow direction indicator
- Pipeline leak detection and water loss monitoring
- Retrofits on existing pipes
- Replacement of mechanical meters with ultrasonic non-intrusive flow meter
- Ultrasonic flow measurement is already an established standard measurement technology in the water sector.
The flow of water brings revenue.

Sewage collection, treatment and distribution


FLEXIM offers the most reliable measurement system for water production, treatment and distribution. Withdrawal of drinking water usually begins at wells and large water tanks. Pipes with large inner diameters carry the restricted water and pass them to the local distribution system. Large eccentric diameters also mean high costs for water metering systems. This is the case with a FLEXIM ultrasonic cross flow meter, which is much easier to install than a magnetic inductive flow meter. The work and pipe work.

Advantages of FLUXUS®:

- Unparalleled accuracy and reliability
- Easy and quick to install - no downstream necessary
- Permanent and maintenance-free - permanent external flow measurement
- Single- and two-effective risk-setting in existing pipelines - impressive adaptability to other meter technologies
- High-resolution measurement - capacitance-law and high flow ranges
- Very high point stability - drift-free measurement - no measurement drifts
- Calibrated in a desk at the factory so no need to obtain zero flow at site
- Very high dynamic range: no direct contact between the measuring system and the medium
- Resistant to poor wall quality - setting signals even on old or glass fiber pipes
- Able to measure pulsating flows for accurate (chemical) dosing
- Virtually no straight pipe run required due to inflow deadtime compensation conditioning, compensating system requirements.
- Resilient to deposits on the pipe wall
- Safe and durable underground installation by means of PPR (PE 100) 60 transducers and the PERMALOK transducer connection.

Common applications in the water and wastewater sector

- New plant construction
- Retro fitting on existing pipes
- Replacement of bearings with limited turn down
- Distribution system monitoring and water balancing
- Pump performance verification
- Leak detection and water loss prevention
- Flow control for chemical feed and dosage
- Sanitation collection, treatment and use
- Measuring system for emergency circuit control of valves
- Flow directed indicator

Advantages of FLUXUS®:

- Unparalleled accuracy and reliability
- Easy and quick to install - no downstream necessary
- Permanent and maintenance-free - permanent external flow measurement
- Single- and two-effective risk-setting in existing pipelines - impressive adaptability to other meter technologies
- High-resolution measurement - capacitance-law and high flow ranges
- Very high point stability - drift-free measurement - no measurement drifts
- Calibrated in a desk at the factory so no need to obtain zero flow at site
- Very high dynamic range: no direct contact between the measuring system and the medium
- Resistant to poor wall quality - setting signals even on old or glass fiber pipes
- Able to measure pulsating flows for accurate (chemical) dosing
- Virtually no straight pipe run required due to inflow deadtime compensation conditioning, compensating system requirements.
- Resilient to deposits on the pipe wall
- Safe and durable underground installation by means of PPR (PE 100) 60 transducers and the PERMALOK transducer connection.

Detectors for solid pipe breaks and small leaks

In order to identify real water losses promptly, the inflow of a supply system must be monitored continuously. Pipe ruptures, which require rapid isolation of the particular pipe section, can easily be identified by abnormal changes in flow behavior using appropriate measurement techniques.

Case study: Underground flow measurement on drinking water lines

A considerable amount of work and effort is often involved when it comes to retrofitting existing pipelines of a drinking water supply system with flow measurement devices. In order to install a conventional magnetic-flow meter, civil engineering work must first be carried out to ensure the pipes for future measurement equipment can be installed which means an interruption of supply. In addition to its non-intrusive advantages, ultrasonic flow measurement is already an established standard measurement technology in the water sector. The compact and extremely sturdy (V9 seamless ultrasonic transducers are simply attached to the outside of the pipe. The site only has to be exposed for a short time in order to secure the supply pipeline and is then back filled immediately after installation. Permanent acoustic coupling and therefore maintenance-free measurement is ensured by the extremely solid PERMALOK transducer connection. Advanced monitoring systems use the FLUXUS® ultrasonic flowmeter as a measurement source, where the data is transferred to the process control system via a mobile radio link.

Advantages:

- Reliable non-intrusive flow measurement
- Durable measuring device with fail-safe transmitters and robust measuring fixtures
- Underground installation without any expensive vault construction

The ideal solution for wastewater collection, treatment and reuse

With the constantly expanding network of sewage treatment plants and more stringent requirements for advanced wastewater treatment, operators are in search of reliable ways to retrofit their piping systems. Non-intrusive flow measurement with FLUXUS® ultrasonic flow meters proves to be a very good and cost effective alternative to other technology used for wastewater flow applications. Normally, the volume flow rates is determined based on the transit-time difference method. The accuracy achieved is unsatisfactory.

In media with higher solids content (≥1%) such as sludges, where the ultrasonic signal becomes attenuated, FLUXUS® automatically switches to the integrated Inertial Track Mode in which the frequency shift of the ultrasonic signal is measured by the particle flow in the liquid and measuring values are accurate and reliable measurement.

Advantages:

- Reliable non-intrusive flow measurement
- Durable measuring device with fail-safe transmitters and robust measuring fixtures
- Underground installation without any expensive vault construction

In media with higher solids content (≥1%) such as sludges, where the ultrasonic signal becomes attenuated, FLUXUS® automatically switches to the integrated Inertial Track Mode in which the frequency shift of the ultrasonic signal is measured by the particle flow in the liquid and measuring values are accurate and reliable measurement.
FLEXIM meters offer unparalleled performance and versatility. Water and wastewater treatment is an important factor in safeguarding water resources. The challenge that operators are faced with is meeting the ever-increasing stringent legislative requirements while at the same time reducing operational costs. FLEXIM helps to meet these requirements by producing accurate and reliable measurements in demanding water and wastewater applications.

FLEXIM is the leader in ultrasonic flow measurement technology. The flexibility to clamp-on to the outside of the pipe and accurately measure what is going through them helps our business partners optimize their water and wastewater treatment plants.

FLEXIM meters help to optimize:
- your water usage by providing an easy and comprehensive method to discover water loss.
- your wastewater streams and sewage collection systems by equalizing pump and lift station performance.

FLEXIM meters are perfectly suited for maintenance applications. Our range of portable and permanent meters are easily installable under flowing conditions and easily identify valves and underperforming pumps. They are also the optimum solution for the replacement of failed inline meters without having to cut them out of the pipe.

FLEXIM turns data into information you can use. Our FluxDiag software makes data retrieval a snap. View and export flow measurements into useful information quickly and easily. The 721 family even allows you to set up and re-configure your meter remotely.

FLEXIM has experience on applications where others cannot operate, by applying advanced technology that enables the meter to start-up and operate where other ultrasonic meters have not been successful.

FLEXIM is an experienced partner for the water and wastewater industry.
In partnership with FLEXIM

Water and wastewater treatment is an important factor in safeguarding water resources. The challenge that operators are faced with is meeting the ever increasing stringent legislative requirements while at the same time reducing operational costs.

FLEXIM helps to meet these requirements by producing accurate and reliable measurements in demanding water and wastewater applications.

FLEXIM is the leader in ultrasonic flow measurement technology.

The flexibility to clamp-on to the outside of the pipe and accurately measure what is going through them helps our business partners optimize their water and wastewater treatment plants.

FLEXIM meters help to optimize:

- your water usage by providing an easy and comprehensive method to discover water loss.
- your wastewater streams and sewage collection systems by equalizing pump and lift station performance.

FLEXIM meters are perfectly suited for maintenance applications. Our range of portable and permanent meters are easily installed under flowing conditions and easily identify valve leaks and underperforming pumps. They are also the systems of choice for the replacement of failed inline meters without having to cut them out of the pipe.

FLEXIM turns data into information you can use. Our FluxDiag software makes data retrieval a snap. View and export flow measurements into useful information quickly and easily. The 721 family even allows you to set up and re-configure your meter remotely.

FLEXIM has experience on applications where others cannot operate, by applying advanced technology that enables the meter to start-up and operate where other ultrasonic meters have not been successful.

FLEXIM is an experienced partner for the water and wastewater industry.

Water and wastewater treatment is an important factor in safeguarding water resources. The challenge that operators are faced with is meeting the ever increasing stringent legislative requirements while at the same time reducing operational costs.

FLEXIM helps to meet these requirements by producing accurate and reliable measurements in demanding water and wastewater applications.

FLEXIM is the leader in ultrasonic flow measurement technology.

The flexibility to clamp-on to the outside of the pipe and accurately measure what is going through them helps our business partners optimize their water and wastewater treatment plants.

FLEXIM meters help to optimize:

- your water usage by providing an easy and comprehensive method to discover water loss.
- your wastewater streams and sewage collection systems by equalizing pump and lift station performance.

FLEXIM meters are perfectly suited for maintenance applications. Our range of portable and permanent meters are easily installed under flowing conditions and easily identify valve leaks and underperforming pumps. They are also the systems of choice for the replacement of failed inline meters without having to cut them out of the pipe.

FLEXIM turns data into information you can use. Our FluxDiag software makes data retrieval a snap. View and export flow measurements into useful information quickly and easily. The 721 family even allows you to set up and re-configure your meter remotely.

FLEXIM has experience on applications where others cannot operate, by applying advanced technology that enables the meter to start-up and operate where other ultrasonic meters have not been successful.

FLEXIM is an experienced partner for the water and wastewater industry.

Water and wastewater treatment is an important factor in safeguarding water resources. The challenge that operators are faced with is meeting the ever increasing stringent legislative requirements while at the same time reducing operational costs.

FLEXIM helps to meet these requirements by producing accurate and reliable measurements in demanding water and wastewater applications.

FLEXIM is the leader in ultrasonic flow measurement technology.

The flexibility to clamp-on to the outside of the pipe and accurately measure what is going through them helps our business partners optimize their water and wastewater treatment plants.

FLEXIM meters help to optimize:

- your water usage by providing an easy and comprehensive method to discover water loss.
- your wastewater streams and sewage collection systems by equalizing pump and lift station performance.

FLEXIM meters are perfectly suited for maintenance applications. Our range of portable and permanent meters are easily installed under flowing conditions and easily identify valve leaks and underperforming pumps. They are also the systems of choice for the replacement of failed inline meters without having to cut them out of the pipe.

FLEXIM turns data into information you can use. Our FluxDiag software makes data retrieval a snap. View and export flow measurements into useful information quickly and easily. The 721 family even allows you to set up and re-configure your meter remotely.

FLEXIM has experience on applications where others cannot operate, by applying advanced technology that enables the meter to start-up and operate where other ultrasonic meters have not been successful.

FLEXIM is an experienced partner for the water and wastewater industry.

Water and wastewater treatment is an important factor in safeguarding water resources. The challenge that operators are faced with is meeting the ever increasing stringent legislative requirements while at the same time reducing operational costs.

FLEXIM helps to meet these requirements by producing accurate and reliable measurements in demanding water and wastewater applications.

FLEXIM is the leader in ultrasonic flow measurement technology.

The flexibility to clamp-on to the outside of the pipe and accurately measure what is going through them helps our business partners optimize their water and wastewater treatment plants.

FLEXIM meters help to optimize:

- your water usage by providing an easy and comprehensive method to discover water loss.
- your wastewater streams and sewage collection systems by equalizing pump and lift station performance.

FLEXIM meters are perfectly suited for maintenance applications. Our range of portable and permanent meters are easily installed under flowing conditions and easily identify valve leaks and underperforming pumps. They are also the systems of choice for the replacement of failed inline meters without having to cut them out of the pipe.

FLEXIM turns data into information you can use. Our FluxDiag software makes data retrieval a snap. View and export flow measurements into useful information quickly and easily. The 721 family even allows you to set up and re-configure your meter remotely.

FLEXIM has experience on applications where others cannot operate, by applying advanced technology that enables the meter to start-up and operate where other ultrasonic meters have not been successful.

FLEXIM is an experienced partner for the water and wastewater industry.