



Dynasonics® TFX-5000 Ultrasonic Clamp-on Flow Meter: A Solution for Water and Wastewater Applications

Water and wastewater treatment facilities have a critical mission: producing a safe supply of drinking water and ensuring the quality and condition of discharge water. We know these operational processes are complex and involve a wide range of flow measurement tasks. Adding to the challenge, these applications demand flow meter accuracy and reliability, long-term stability and a low cost of ownership.

Badger Meter offers a wide variety of products for water and wastewater applications—ensuring you have the right solution to meet your unique requirements. Our ModMAG® electromagnetic flow meters, Recordall® disc meters and E-Series® and Dynasonics® ultrasonic flow meters are recognized names in the water and wastewater industry.

The Dynasonics TFX-5000 ultrasonic clamp-on flow meter is our latest generation in transit time meters. The TFX-5000 meter is intended for use in today's complex environment, where advanced technology is needed to deal with critical operational demands, rising cost constraints and the wave of retiring workers.

When Price and Performance Matter

The TFX-5000 meter provides an optimal value for those looking for a superior solution at a competitive price. With built-in data logging and real time clock, the meter records flow rate, total and diagnostic information with a time/date stamp. It also has an 8 GB micro Secure Digital (microSD) card to store a large volume of backup data for troubleshooting or reporting purposes.

Easy New and Retrofit Installation

If an existing in-line flow meter fails and is difficult to replace, the alternative is a non-invasive solution like the TFX-5000 meter. The TFX-5000 meter clamps onto the outside of pipes and does not contact the internal liquid and, in many cases, the in-line meter can remain in place, undisturbed.

Water and Wastewater Applications

Lift Stations



Booster Pump Stations



Water Mains



Control. Manage. Optimize.

Designed to Meet Your Needs

As a precision transit time ultrasonic device, the TFX-5000 meter is the right choice for measuring the volumetric flow of clean liquids as well as those with small amounts of suspended solids or aeration, such as surface water or raw sewage.

Lift Stations

Cost-effective: The TFX-5000 meter handles a wide range of pipe sizes. Its lightweight, clamp-on design also reduces installation costs by eliminating cranes or other lifting equipment.

Reliable: Monitoring the flow throughout the wastewater collection systems allows the operator to make adjustments before sewage enters the treatment plant. The TFX-5000 meter can operate reliably in raw sewage with up to 3% suspended solids.

Robust: With submersible transducers and Class I, Division 2 hazardous location options, the TFX-5000 meter withstands the rigors of this environment.

Booster Pump Stations

Non-intrusive: With its non-intrusive configuration, the TFX-5000 meter provides utmost ease of deployment. It can be put into service without shutting down the process or intruding into existing piping.

Data-driven: The TFX-5000 meter was developed with modern, data-centric operations in mind. Along with data logging, the meter offers a wide range of connectivity options, including Modbus® RTU, EtherNet/IP and Modbus TCP/IP.

Rugged: The TFX-5000 meter is built for the day-to-day demands of remote installations. It utilizes a sturdy aluminum enclosure for a long service life under the harshest conditions.

Water Mains

Versatile: Monitoring flows in large diameter pipes is notoriously expensive. Today, it is possible to measure flows in large water mains using clamp-on flow meter technology. The TFX-5000 meter has a wide, bi-directional flow measuring range and no pressure head loss.

Connected: Users can pair the TFX-5000 meter with the BEACON® Advanced Metering Analytics cloud-based software to provide flow data for consumption analysis, leak detection and other purposes. The meter also interfaces with SCADA systems for real-time flow balancing.

Non-contact: The TFX-5000 meter meets requirements for lead content in potable water plumbing products by never coming into contact with the water.



Learn more about the TFX-5000 meter at badgermeter.com.

Control. Manage. Optimize.

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