

# **Waste & Wastewater Management Ultrasonic Flowmeter Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Transducer Type (Spool piece, Inline, Clamp-on and Others), By Technology (Transit-time, Doppler and Hybrid), By Region, Competition 2018-2028.**

<https://marketpublishers.com/r/WC51E8C04996EN.html>

Date: October 2023

Pages: 190

Price: US\$ 4,900.00 (Single User License)

ID: WC51E8C04996EN

## **Abstracts**

Global Waste & Wastewater Management Ultrasonic Flowmeter Market has valued at USD 692.91 Million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 8.21% through 2028. The global Waste & Wastewater Management ultrasonic flowmeter market is primarily driven by the demand for ultrasonic flowmeters in the oil and gas sector, specifically for custody transfer applications. Accurate measurement is crucial in determining the quantity of product being transferred, and even the slightest inaccuracy can result in significant costs. Ultrasonic flowmeters offer exceptional accuracy, with some models boasting an accuracy as high as 0.1 percent. This precise metering capability instills confidence in commercial transactions and helps mitigate custody transfer disputes, making it a widely adopted technology in the oil and gas industry. Furthermore, the use of ultrasonic flowmeters has expanded to other sectors such as wastewater management, power generation, and chemical industries due to the need for non-invasive measurement devices.

### **Key Market Drivers**

#### **Advancements in Ultrasonic Flowmeter Technology**

One of the key drivers of the Global Ultrasonic Flowmeter Market is the continuous

advancement in ultrasonic flowmeter technology. Manufacturers consistently innovate to develop flowmeter solutions that are more accurate, reliable, and versatile.

Modern ultrasonic flowmeters excel in providing highly precise measurements even in challenging flow conditions. Enhanced signal processing algorithms and ultrasonic sensor designs contribute significantly to improving measurement accuracy.

Newer ultrasonic flowmeters find applications across a wide range of industries, including oil and gas, chemical, water and wastewater, and energy. They can handle various fluid types, from clean liquids to dirty, corrosive, or abrasive fluids. Additionally, they are suitable for measuring gas flow rates. This versatility makes them highly appealing.

Certain ultrasonic flowmeters offer non-invasive and non-contact measurement methods, eliminating the need for insertion into the flow stream. This feature minimizes maintenance requirements and reduces the risk of contamination or leakage.

Many modern ultrasonic flowmeters come equipped with advanced communication protocols, enabling seamless integration into existing control and monitoring systems. This connectivity facilitates efficient data analysis and remote monitoring, thus enhancing operational efficiency.

### Growing Demand for Non-Invasive Flow Measurement

The Global Waste & Wastewater Management Ultrasonic Flowmeter Market is experiencing significant growth driven by the growing demand for non-invasive flow measurement solutions in the industry. Ultrasonic flowmeters are at the forefront of this market evolution, as they offer a range of advantages that cater to the oil and gas sector's specific needs. The rising demand for non-invasive flow measurement can be attributed to several key factors. First and foremost, the oil and gas industry operates in environments where process integrity and safety are paramount. Traditional invasive flow measurement methods, such as mechanical meters or turbine flowmeters, often require direct contact with the flowing medium. This can pose safety risks, especially when dealing with hazardous substances like crude oil or natural gas. Ultrasonic flowmeters, on the other hand, are non-invasive and do not require penetration into pipelines or vessels, making them a safer choice for fluid measurement in these critical applications.

Moreover, the non-invasive nature of ultrasonic flowmeters minimizes disruption to

ongoing operations. In the oil and gas industry, downtime can be extremely costly. Installing or servicing invasive meters can lead to production interruptions, which can result in substantial financial losses. Ultrasonic flowmeters, with their clamp-on or external installation options, allow for easy retrofitting and maintenance without the need to halt processes.

Furthermore, the versatility of ultrasonic flowmeters makes them ideal for a wide range of applications within the oil and gas sector. They can accurately measure flow rates of various fluids, including hydrocarbons, without altering the fluid composition or properties. This adaptability is essential for the diverse operations involved in oil exploration, production, transportation, and refining. As the world increasingly emphasizes efficiency, safety, and environmental responsibility in the oil and gas industry, the demand for non-invasive flow measurement solutions, particularly ultrasonic flowmeters, is expected to continue its upward trajectory. These advanced devices not only enhance safety and operational efficiency but also contribute to cost savings and compliance with stringent regulatory requirements, making them a pivotal component of the industry's evolution towards a more sustainable and technologically advanced future.

### Increasing Focus on Energy Efficiency and Conservation

The Global Waste & Wastewater Management Ultrasonic Flowmeter Market is poised for significant growth due to the increasing focus on energy efficiency and conservation in the oil and gas industry. Ultrasonic flowmeters have emerged as a critical technology in this sector, offering a wide range of benefits that align perfectly with the industry's sustainability goals. One of the primary drivers of this market's growth is the relentless pursuit of energy efficiency within the oil and gas sector. As the world grapples with the challenges of climate change and dwindling fossil fuel resources, energy conservation has become a top priority. Ultrasonic flowmeters play a pivotal role in this quest by providing highly accurate measurements of fluid flow, enabling operators to optimize their processes and reduce energy waste. This efficiency not only reduces operational costs but also minimizes the environmental impact of oil and gas extraction and production.

Furthermore, regulatory bodies worldwide are increasingly imposing stringent guidelines on energy usage and emissions in the oil and gas industry. Ultrasonic flowmeters offer a solution to comply with these regulations by ensuring that companies can precisely measure and report their energy consumption. This not only helps organizations meet their compliance requirements but also enhances their sustainability credentials, which

is crucial in today's environmentally conscious business landscape. In addition to their energy efficiency benefits, ultrasonic flowmeters are highly versatile and well-suited to the challenging environments of the oil and gas industry. They are capable of measuring flow rates accurately across a wide range of fluid types, including crude oil, natural gas, and various petroleum products. Their non-intrusive, maintenance-free design is particularly advantageous for applications where downtime and maintenance costs are critical concerns.

In conclusion, the Global Waste & Wastewater Management Ultrasonic Flowmeter Market is set to thrive as the industry increasingly prioritizes energy efficiency and conservation. These advanced flow measurement devices not only help reduce energy consumption and operational costs but also enable oil and gas companies to meet stringent regulatory requirements and bolster their sustainability efforts. As the world transitions toward a more sustainable energy future, ultrasonic flowmeters will play a pivotal role in driving efficiency and responsible resource management in the oil and gas sector.

## Key Market Challenges

### Sensitivity to Fluid Properties and Environmental Factors

One of the primary challenges in the Global Ultrasonic Flowmeter Market is the sensitivity of ultrasonic flowmeters to fluid properties and environmental factors. Ultrasonic flowmeters operate based on measuring the speed of sound in a fluid to determine flow rate. Changes in fluid temperature and viscosity can impact the speed of sound in the fluid, leading to potential measurement errors. Compensation algorithms may be required to account for these variations in ultrasonic flowmeters.

Additionally, ultrasonic flowmeters can face difficulties when dealing with gas-liquid mixtures. The presence of gas bubbles in a liquid can scatter ultrasonic waves, presenting a challenge in obtaining accurate flow measurements.

Moreover, achieving precise readings with ultrasonic flowmeters often relies on well-developed flow profiles. Irregular flow patterns or complex piping configurations can introduce uncertainties in the measurements.

Furthermore, it is important to consider the material and internal coatings of the pipe as they can affect ultrasonic wave propagation. Corrosion or scale buildup on pipe walls can disrupt ultrasonic signals, impacting the accuracy of the flow measurements.

## High Initial Costs and Complex Installation

One major challenge in the Global Ultrasonic Flowmeter Market is the significant upfront investment associated with ultrasonic flowmeter systems. These costs encompass the acquisition of the flowmeter itself, installation expenses, and potential additional expenses for data integration and maintenance.

Ultrasonic flowmeters, particularly advanced models with sophisticated features, can have a high purchase price. These costs might discourage potential users, especially small and medium-sized enterprises (SMEs).

Installing ultrasonic flowmeters, especially for in-line applications, can be intricate and time-consuming. It may necessitate specialized knowledge and skills, thereby increasing installation costs. Integrating ultrasonic flowmeter data with existing control and monitoring systems can present challenges. Compatibility issues, disparities in data formats, and differing communication protocols may need to be addressed, resulting in supplementary costs.

## Competition from Alternative Flow Measurement Technologies

The Global Ultrasonic Flowmeter Market encounters competition from alternative flow measurement technologies such as electromagnetic, vortex, and differential pressure flowmeters. Different flow measurement technologies excel in specific applications. For instance, electromagnetic flowmeters are well-suited for liquid conductance, while vortex flowmeters prove effective in gas measurement.

In certain cases, alternative flow measurement technologies may offer more cost-effective solutions, particularly for simple and straightforward applications. Customers may opt for these alternatives to minimize expenses instead of ultrasonic flowmeters. Certain industries and regions have a longstanding tradition of utilizing conventional flow measurement methods. Persuading users to transition to ultrasonic flowmeters can present challenges.

In conclusion, the Global Ultrasonic Flowmeter Market faces challenges associated with fluid properties and environmental factors, high initial costs, and competition from alternative flow measurement technologies. Overcoming these challenges necessitates ongoing research and development efforts to enhance measurement accuracy, reduce costs, and address specific industry requirements. Additionally, effective marketing and

educational initiatives highlighting the advantages of ultrasonic flowmeters can facilitate their wider adoption across various applications.

## Key Market Trends

### Increasing Environmental Concerns

Increasing environmental concerns are poised to be a significant driving force behind the growth of the Global Waste and Wastewater Management Ultrasonic Flowmeter Market. As our planet faces mounting challenges related to water pollution and resource conservation, the demand for accurate and efficient wastewater management solutions has never been more critical. Ultrasonic flowmeters, with their advanced technology and non-invasive nature, are becoming indispensable tools in addressing these concerns.

One of the primary drivers is the growing awareness of environmental issues worldwide. With the deteriorating state of natural water resources, the need to monitor and control wastewater has taken center stage. Governments, regulatory bodies, and environmental organizations are pushing for stricter regulations and standards to mitigate water pollution. Ultrasonic flowmeters offer a reliable means to measure and monitor wastewater flow with high precision, enabling organizations to comply with these stringent requirements. Furthermore, the global community is increasingly recognizing the severity of water scarcity, which amplifies the importance of effective wastewater management. Ultrasonic flowmeters play a pivotal role in optimizing water usage and minimizing wastage, helping to alleviate water stress in regions where resources are strained.

The industrial sector, including pharmaceuticals, chemicals, and manufacturing, is expanding at a rapid pace. Consequently, the generation of industrial wastewater is on the rise. These industries are turning to ultrasonic flowmeters for accurate measurement and monitoring to meet environmental regulations and reduce operational costs. This trend is likely to fuel the adoption of ultrasonic flowmeters in various industrial applications. Additionally, governments and municipalities are investing heavily in upgrading and expanding wastewater treatment infrastructure to cope with growing urbanization. Ultrasonic flowmeters are an integral part of modernizing these systems, ensuring efficient wastewater transportation and treatment.

The continuous evolution of ultrasonic flowmeter technology enhances their accuracy, reliability, and ease of installation, making them an attractive choice for environmentalists, engineers, and facility managers alike. Their non-invasive nature and



compatibility with IoT platforms enable real-time monitoring and data analysis, facilitating informed decision-making and proactive maintenance. In conclusion, the increasing global environmental concerns related to water pollution, resource scarcity, and regulatory compliance are driving the demand for ultrasonic flowmeters in waste and wastewater management. These advanced devices are playing a crucial role in safeguarding our environment by ensuring the efficient and sustainable management of wastewater resources, making them indispensable tools in the pursuit of a cleaner and more sustainable world.

### Integration of Digital and Wireless Connectivity

The Global Waste & Wastewater Management Ultrasonic Flowmeter Market is poised for substantial growth, primarily attributed to the integration of digital and wireless connectivity solutions within the industry. This technological advancement is driving the adoption of ultrasonic flowmeters, as they offer numerous benefits that align with the evolving needs of the oil and gas sector. The integration of digital and wireless connectivity is transforming the way the oil and gas industry operates. Ultrasonic flowmeters equipped with these capabilities are becoming indispensable tools for modernizing operations and optimizing efficiency. Here's how this integration is fueling market growth, Real-time Monitoring and Data Access: Digital and wireless connectivity enable real-time monitoring of flow measurements from remote locations. Oil and gas companies can access critical data, such as flow rates, temperature, and pressure, instantly and remotely. This capability enhances decision-making, reduces response times to issues, and allows for proactive maintenance and troubleshooting.

**Data Integration and Analytics:** Integration with digital platforms allows for seamless data integration and analysis. Companies can integrate flow measurement data with other relevant data streams, such as production rates and environmental parameters. Advanced analytics can then provide valuable insights for optimizing operations, improving energy efficiency, and minimizing downtime. **Cost Efficiency:** Digital connectivity reduces the need for manual data collection and on-site inspections. This results in cost savings associated with labor, travel, and potential operational disruptions. Additionally, predictive maintenance based on real-time data can extend the lifespan of equipment and reduce unexpected repair expenses.

**Environmental Compliance:** The oil and gas industry faces increasingly stringent environmental regulations. Digital connectivity enables accurate and continuous monitoring of emissions and fluid flow, ensuring compliance with environmental standards. This helps companies avoid costly fines and reputational damage. **Safety**

**Enhancements:** Wireless connectivity allows for remote operation and monitoring of equipment in hazardous environments. This reduces the exposure of personnel to potentially dangerous situations and enhances overall safety protocols.

**Scalability:** Digital and wireless solutions are highly scalable, making it easier for companies to adapt and expand their operations. Whether it's adding new measuring points, integrating with existing systems, or expanding into remote areas, ultrasonic flowmeters with these capabilities offer flexibility. In conclusion, the integration of digital and wireless connectivity is driving the Global Waste & Wastewater Management Ultrasonic Flowmeter Market by providing oil and gas companies with the tools they need to optimize operations, ensure safety, and meet stringent regulatory requirements. As the industry continues to embrace these technologies, ultrasonic flowmeters equipped with digital and wireless capabilities are positioned as essential assets for enhancing efficiency, reducing costs, and promoting sustainability in the oil and gas sector.

## Segmental Insights

### Technology Insights

The Transit-time segment holds a significant market share in the Global Market. Transit-time ultrasonic flowmeters, also known as time-of-flight or time-difference flowmeters, are extensively utilized across various industries due to their accuracy, versatility, and suitability for a wide range of liquid flow measurement applications. Typically equipped with two ultrasonic sensors—one upstream and one downstream—transit-time flowmeters accurately measure flow rates in municipal water and wastewater treatment plants, distribution networks, and the oil and gas industry. These flowmeters are capable of measuring diverse fluids, including crude oil, natural gas, and refined products, with high accuracy even under challenging flow conditions.

Additionally, transit-time flowmeters are being integrated with digital communication protocols and data analysis tools, enabling real-time monitoring, diagnostics, and remote access. They are being adopted by industries to ensure compliance with environmental regulations pertaining to water usage and wastewater discharge.

## Regional Insights

The Asia Pacific region is expected to dominate the market during the forecast period. The Asia-Pacific region plays a crucial role in the Global Ultrasonic Flowmeter Market,



driven by rapid industrialization, urbanization, and substantial investments in infrastructure development across various sectors.

The water and wastewater management sector is dominating in multiple countries in the Asia-Pacific region. Countries like China, India, and those in Southeast Asia are witnessing rapid urbanization and industrial development, driving the need for adequate power generation, water supply, and wastewater treatment solutions. According to WHO, reducing wastewater generation and implementing on-site sewage and wastewater technology are two strategies that can improve wastewater management. Singapore's Tuas Desalination Plant (TDP), the first desalination plant owned and operated by PUB, Singapore's National Water Agency, has won international recognition in 2019 for its ecologically sustainable use technologies in the treatment process.

The region's diversified economies and industries contribute to the demand for ultrasonic flowmeters in a wide range of applications, including water and wastewater management as well as oil and gas production. With continuous industrial expansion, particularly in countries such as China, India, Japan, South Korea, and Southeast Asian nations, there is a growing need for flow measurement solutions across various industries.

Additionally, the significant focus on water and wastewater management due to rapid urbanization and population growth in many Asian countries has intensified the adoption of ultrasonic flowmeters in monitoring influent and effluent flow rates in wastewater treatment plants and distribution networks.

Moreover, Asia-Pacific countries, including China and India, are major consumers and producers of oil and natural gas, making ultrasonic flowmeters crucial for custody transfer applications, pipeline monitoring, and production processes. Furthermore, the integration of ultrasonic flowmeters with digital technologies and the Internet of Things (IoT) is gaining momentum, enabling real-time monitoring, predictive maintenance, and remote data access, in line with Industry 4.0 principles.

In conclusion, the Asia-Pacific region serves as a significant growth driver for the Global Ultrasonic Flowmeter Market. The combination of rapid industrialization, infrastructure development, environmental concerns, and a focus on digitalization is fueling the demand for ultrasonic flowmeters across diverse applications. As industries increasingly prioritize efficiency, compliance, and sustainability, the Asia-Pacific market for ultrasonic flowmeters is expected to continue expanding and evolving.

## Key Market Players

Baker Hughes Company (GE)

Endress+Hauser Group Services AG

Fuji Electric Co. Ltd

Honeywell International Inc.

Emerson Electric Co.

Badger Meter Inc.

Omega Engineering Inc (Spectris plc)

KROHNE Group

Teledyne Technologies Incorporated

Bronkhorst High-Tech BV

## Report Scope:

In this report, the Global Waste & Wastewater Management Ultrasonic Flowmeter Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Global Waste & Wastewater Management Ultrasonic Flowmeter Market, By  
Transducer Type:

Spool piece

Inline

Clamp-on

Others

## Global Waste & Wastewater Management Ultrasonic Flowmeter Market, By Technology:

Transit-time

Doppler

Hybrid

## Global Waste & Wastewater Management Ultrasonic Flowmeter Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East & Africa

Saudi Arabia

South Africa

Egypt

UAE

Israel

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Waste & Wastewater Management Ultrasonic Flowmeter Market.

## Available Customizations:

Global Waste & Wastewater Management Ultrasonic Flowmeter Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).



## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.3. Markets Covered
- 1.4. Years Considered for Study
- 1.5. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

### **4. VOICE OF CUSTOMERS**

### **5. GLOBAL WASTE & WASTEWATER MANAGEMENT ULTRASONIC FLOWMETER MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Transducer Type (Spool piece, Inline, Clamp-on and Others)
  - 5.2.2. By Technology (Transit-time, Doppler and Hybrid)
  - 5.2.3. By Region
- 5.3. By Company (2022)
- 5.4. Market Map

### **6. NORTH AMERICA WASTE & WASTEWATER MANAGEMENT ULTRASONIC**



## **FLOWMETER MARKET OUTLOOK**

### 6.1. Market Size & Forecast

#### 6.1.1. By Value

### 6.2. Market Share & Forecast

#### 6.2.1. By Transducer Type

#### 6.2.2. By Technology

#### 6.2.3. By Country

### 6.3. North America: Country Analysis

#### 6.3.1. United States Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 6.3.1.1. Market Size & Forecast

###### 6.3.1.1.1. By Value

##### 6.3.1.2. Market Share & Forecast

###### 6.3.1.2.1. By Transducer Type

###### 6.3.1.2.2. By Technology

#### 6.3.2. Canada Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 6.3.2.1. Market Size & Forecast

###### 6.3.2.1.1. By Value

##### 6.3.2.2. Market Share & Forecast

###### 6.3.2.2.1. By Transducer Type

###### 6.3.2.2.2. By Technology

#### 6.3.3. Mexico Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 6.3.3.1. Market Size & Forecast

###### 6.3.3.1.1. By Value

##### 6.3.3.2. Market Share & Forecast

###### 6.3.3.2.1. By Transducer Type

###### 6.3.3.2.2. By Technology

## **7. ASIA-PACIFIC WASTE & WASTEWATER MANAGEMENT ULTRASONIC FLOWMETER MARKET OUTLOOK**

### 7.1. Market Size & Forecast

#### 7.1.1. By Value

### 7.2. Market Share & Forecast

#### 7.2.1. By Transducer Type

#### 7.2.2. By Technology

#### 7.2.3. By Country

### 7.3. Asia-Pacific: Country Analysis

#### 7.3.1. China Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 7.3.1.1. Market Size & Forecast

###### 7.3.1.1.1. By Value

##### 7.3.1.2. Market Share & Forecast

###### 7.3.1.2.1. By Transducer Type

###### 7.3.1.2.2. By Technology

#### 7.3.2. India Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 7.3.2.1. Market Size & Forecast

###### 7.3.2.1.1. By Value

##### 7.3.2.2. Market Share & Forecast

###### 7.3.2.2.1. By Transducer Type

###### 7.3.2.2.2. By Technology

#### 7.3.3. Japan Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 7.3.3.1. Market Size & Forecast

###### 7.3.3.1.1. By Value

##### 7.3.3.2. Market Share & Forecast

###### 7.3.3.2.1. By Transducer Type

###### 7.3.3.2.2. By Technology

#### 7.3.4. South Korea Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 7.3.4.1. Market Size & Forecast

###### 7.3.4.1.1. By Value

##### 7.3.4.2. Market Share & Forecast

###### 7.3.4.2.1. By Transducer Type

###### 7.3.4.2.2. By Technology

#### 7.3.5. Indonesia Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 7.3.5.1. Market Size & Forecast

###### 7.3.5.1.1. By Value

##### 7.3.5.2. Market Share & Forecast

###### 7.3.5.2.1. By Transducer Type

###### 7.3.5.2.2. By Technology

## **8. EUROPE WASTE & WASTEWATER MANAGEMENT ULTRASONIC FLOWMETER MARKET OUTLOOK**

### 8.1. Market Size & Forecast

#### 8.1.1. By Value

## 8.2. Market Share & Forecast

### 8.2.1. By Transducer Type

### 8.2.2. By Technology

### 8.2.3. By Country

## 8.3. Europe: Country Analysis

### 8.3.1. Germany Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

#### 8.3.1.1. Market Size & Forecast

##### 8.3.1.1.1. By Value

#### 8.3.1.2. Market Share & Forecast

##### 8.3.1.2.1. By Transducer Type

##### 8.3.1.2.2. By Technology

### 8.3.2. United Kingdom Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

#### 8.3.2.1. Market Size & Forecast

##### 8.3.2.1.1. By Value

#### 8.3.2.2. Market Share & Forecast

##### 8.3.2.2.1. By Transducer Type

##### 8.3.2.2.2. By Technology

### 8.3.3. France Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

#### 8.3.3.1. Market Size & Forecast

##### 8.3.3.1.1. By Value

#### 8.3.3.2. Market Share & Forecast

##### 8.3.3.2.1. By Transducer Type

##### 8.3.3.2.2. By Technology

### 8.3.4. Russia Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

#### 8.3.4.1. Market Size & Forecast

##### 8.3.4.1.1. By Value

#### 8.3.4.2. Market Share & Forecast

##### 8.3.4.2.1. By Transducer Type

##### 8.3.4.2.2. By Technology

### 8.3.5. Spain Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

#### 8.3.5.1. Market Size & Forecast

##### 8.3.5.1.1. By Value

#### 8.3.5.2. Market Share & Forecast

##### 8.3.5.2.1. By Transducer Type

##### 8.3.5.2.2. By Technology

## 9. SOUTH AMERICA WASTE & WASTEWATER MANAGEMENT ULTRASONIC

## **FLOWMETER MARKET OUTLOOK**

### 9.1. Market Size & Forecast

#### 9.1.1. By Value

### 9.2. Market Share & Forecast

#### 9.2.1. By Transducer Type

#### 9.2.2. By Technology

#### 9.2.3. By Country

### 9.3. South America: Country Analysis

#### 9.3.1. Brazil Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 9.3.1.1. Market Size & Forecast

###### 9.3.1.1.1. By Value

##### 9.3.1.2. Market Share & Forecast

###### 9.3.1.2.1. By Transducer Type

###### 9.3.1.2.2. By Technology

#### 9.3.2. Argentina Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 9.3.2.1. Market Size & Forecast

###### 9.3.2.1.1. By Value

##### 9.3.2.2. Market Share & Forecast

###### 9.3.2.2.1. By Transducer Type

###### 9.3.2.2.2. By Technology

## **10. MIDDLE EAST & AFRICA WASTE & WASTEWATER MANAGEMENT ULTRASONIC FLOWMETER MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Transducer Type

#### 10.2.2. By Technology

#### 10.2.3. By Country

### 10.3. Middle East & Africa: Country Analysis

#### 10.3.1. Saudi Arabia Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

##### 10.3.1.1. Market Size & Forecast

###### 10.3.1.1.1. By Value

##### 10.3.1.2. Market Share & Forecast

###### 10.3.1.2.1. By Transducer Type

10.3.1.2.2. By Technology

10.3.2. South Africa Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Transducer Type

10.3.2.2.2. By Technology

10.3.3. UAE Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Transducer Type

10.3.3.2.2. By Technology

10.3.4. Israel Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

10.3.4.1. Market Size & Forecast

10.3.4.1.1. By Value

10.3.4.2. Market Share & Forecast

10.3.4.2.1. By Transducer Type

10.3.4.2.2. By Technology

10.3.5. Egypt Waste & Wastewater Management Ultrasonic Flowmeter Market Outlook

10.3.5.1. Market Size & Forecast

10.3.5.1.1. By Value

10.3.5.2. Market Share & Forecast

10.3.5.2.1. By Transducer Type

10.3.5.2.2. By Technology

## **11. MARKET DYNAMICS**

11.1. Drivers

11.2. Challenge

## **12. MARKET TRENDS & DEVELOPMENTS**

## **13. COMPANY PROFILES**

13.1. Baker Hughes Company

13.1.1. Business Overview

- 13.1.2. Key Revenue and Financials
- 13.1.3. Recent Developments
- 13.1.4. Key Personnel
- 13.1.5. Key Product/Services
- 13.2. Endress+Hauser Group Services AG
  - 13.2.1. Business Overview
  - 13.2.2. Key Revenue and Financials
  - 13.2.3. Recent Developments
  - 13.2.4. Key Personnel
  - 13.2.5. Key Product/Services
- 13.3. Fuji Electric Co. Ltd.
  - 13.3.1. Business Overview
  - 13.3.2. Key Revenue and Financials
  - 13.3.3. Recent Developments
  - 13.3.4. Key Personnel
  - 13.3.5. Key Product/Services
- 13.4. Honeywell International Inc.
  - 13.4.1. Business Overview
  - 13.4.2. Key Revenue and Financials
  - 13.4.3. Recent Developments
  - 13.4.4. Key Personnel
  - 13.4.5. Key Product/Services
- 13.5. Emerson Electric Co.
  - 13.5.1. Business Overview
  - 13.5.2. Key Revenue and Financials
  - 13.5.3. Recent Developments
  - 13.5.4. Key Personnel
  - 13.5.5. Key Product/Services
- 13.6. Badger Meter Inc.
  - 13.6.1. Business Overview
  - 13.6.2. Key Revenue and Financials
  - 13.6.3. Recent Developments
  - 13.6.4. Key Personnel
  - 13.6.5. Key Product/Services
- 13.7. Omega Engineering Inc (Spectris plc)
  - 13.7.1. Business Overview
  - 13.7.2. Key Revenue and Financials
  - 13.7.3. Recent Developments
  - 13.7.4. Key Personnel



13.7.5. Key Product/Services

13.8. KROHNE Group

13.8.1. Business Overview

13.8.2. Key Revenue and Financials

13.8.3. Recent Developments

13.8.4. Key Personnel

13.8.5. Key Product/Services

13.9. Bronkhorst High-Tech BV

13.9.1. Business Overview

13.9.2. Key Revenue and Financials

13.9.3. Recent Developments

13.9.4. Key Personnel

13.9.5. Key Product/Services

## **14. STRATEGIC RECOMMENDATIONS**

About Us & Disclaimer

## I would like to order

Product name: Waste & Wastewater Management Ultrasonic Flowmeter Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented by Transducer Type (Spool piece, Inline, Clamp-on and Others), By Technology (Transit-time, Doppler and Hybrid), By Region, Competition 2018-2028.

Product link: <https://marketpublishers.com/r/WC51E8C04996EN.html>

Price: US\$ 4,900.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/WC51E8C04996EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970