

# **Smart Gas Meter Market - Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Component (AMR and AMI), By Type (Smart Ultrasonic Gas Meter and Smart Diaphragm Gas Meter), By Component (Hardware and Software), By End User (Residential, Commercial and Industrial), By Region, and By Competition 2018-2028**

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## **Abstracts**

Global Smart Gas Meter Market has valued at USD 1.62 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 3.79% through 2028. The increasing focus on sustainability and the need to reduce carbon emissions globally drive the adoption of smart gas meters. Smart meters contribute to energy efficiency by providing real-time data on gas consumption, enabling consumers and utilities to optimize usage and reduce waste. This aligns with international sustainability goals and regulatory targets.

### **Key Market Drivers**

#### **Increasing Emphasis on Energy Efficiency and Sustainability**

The Global Smart Gas Meter Market is being driven by a growing emphasis on energy efficiency and sustainability. As the world grapples with the challenges of climate change and environmental degradation, there is a heightened awareness of the need to reduce carbon emissions and optimize resource utilization. Smart gas meters play a pivotal role in this paradigm shift by providing real-time data on gas consumption, enabling consumers and utilities to make informed decisions about energy usage.

Smart gas meters offer advanced features such as remote monitoring, automated meter reading, and data analytics capabilities. These functionalities empower both consumers and utility companies to identify patterns of energy consumption, pinpoint inefficiencies, and implement targeted strategies to reduce waste. This emphasis on energy efficiency aligns with global initiatives and regulations aimed at curbing greenhouse gas emissions. Governments and regulatory bodies around the world are increasingly incentivizing the adoption of smart metering technologies as part of broader efforts to achieve sustainability goals.

Furthermore, the integration of smart gas meters into smart grids facilitates a more intelligent and responsive energy distribution system. This interconnectedness allows for better load management, quicker detection of leaks or anomalies, and improved overall efficiency in the gas supply chain. As a result, the demand for smart gas meters is expected to rise significantly, driven by the collective push toward a greener and more sustainable future.

### Technological Advancements and IoT Integration

A key driver of the Global Smart Gas Meter Market is the continuous evolution of technology and the integration of Internet of Things (IoT) capabilities into metering systems. The ongoing digital transformation has enabled the development of sophisticated smart gas meters that go beyond basic measurement functions. Modern smart gas meters are equipped with sensors, communication modules, and data processing capabilities, allowing them to collect and transmit real-time data seamlessly.

The integration of IoT technologies enables smart gas meters to communicate with other devices, forming a comprehensive and interconnected network. This connectivity facilitates the creation of smart homes and smart cities where energy management becomes more intelligent and automated. Consumers can access detailed information about their gas consumption through user-friendly interfaces, fostering awareness and encouraging energy-efficient practices.

Moreover, the ability of smart gas meters to communicate remotely reduces the need for manual meter reading, leading to operational efficiencies for utility companies. Automated meter reading not only saves time and resources but also minimizes errors associated with manual data collection. As technology continues to advance, with the emergence of 5G networks and edge computing, the capabilities of smart gas meters are expected to expand further, driving the adoption of these advanced metering solutions on a global scale.

## Regulatory Initiatives and Mandates

Regulatory initiatives and mandates are significant drivers propelling the Global Smart Gas Meter Market. Governments and regulatory bodies worldwide are increasingly recognizing the benefits of smart metering technologies in achieving energy efficiency, reducing carbon emissions, and enhancing overall utility operations. As a result, many countries are implementing regulatory frameworks that encourage or mandate the deployment of smart gas meters.

In several regions, there are stringent targets for reducing carbon footprints and improving energy efficiency, and smart gas meters are seen as instrumental in meeting these objectives. Regulatory mandates often include requirements for utilities to replace traditional gas meters with smart counterparts within a specified timeframe. These initiatives not only drive the adoption of smart gas meters but also create a conducive environment for innovation and investment in the smart metering sector.

Furthermore, regulatory support extends beyond deployment mandates to include measures such as financial incentives and subsidies for both utilities and consumers adopting smart gas metering solutions. These incentives help overcome financial barriers and accelerate the transition to more advanced and sustainable metering infrastructure. As regulatory frameworks continue to evolve and become more supportive of smart metering technologies, the Global Smart Gas Meter Market is poised to experience sustained growth driven by the push for regulatory compliance and the pursuit of energy efficiency goals.

## Key Market Challenges

### High Initial Implementation Costs and Return on Investment Concerns

One significant challenge facing the Global Smart Gas Meter Market is the high initial implementation costs associated with deploying smart metering infrastructure. The transition from traditional gas meters to smart gas meters involves not only the cost of the meters themselves but also expenses related to communication infrastructure, data management systems, and installation. While the long-term benefits of smart gas meters, such as improved efficiency and reduced operational costs, are evident, the upfront capital investment can pose a barrier for both utility companies and end-users.

For utility companies, the challenge lies in justifying the substantial initial expenditure to

stakeholders and regulators. The return on investment (ROI) for smart gas meters is typically realized over an extended period, making it essential to demonstrate the long-term value and operational advantages of the technology. Additionally, consumers may be hesitant to bear the costs associated with the deployment of smart meters, especially if the benefits are not immediately apparent. Convincing both stakeholders and consumers of the financial viability and long-term advantages of smart gas meters remains a critical challenge for the widespread adoption of this technology.

### Data Security and Privacy Concerns

The proliferation of interconnected devices and the extensive data collection capabilities of smart gas meters raise significant concerns regarding data security and privacy. Smart gas meters continuously collect and transmit sensitive consumption data, providing valuable insights into the daily activities and routines of consumers. As a result, protecting this data from unauthorized access, cyber threats, and potential misuse becomes a paramount challenge for the Global Smart Gas Meter Market.

Utility companies and technology providers must implement robust cybersecurity measures to safeguard the integrity and confidentiality of the data generated by smart gas meters. The potential for unauthorized access to consumption patterns raises privacy concerns among consumers, leading to skepticism and resistance to the adoption of smart metering technologies. Addressing these concerns requires transparent communication about the measures in place to protect consumer data and compliance with stringent data protection regulations.

Moreover, as smart gas meters become integral components of smart grids and smart cities, the interconnectedness of these systems creates additional vulnerabilities. Coordination among stakeholders, including government bodies, utility companies, and technology providers, is essential to establish and enforce industry-wide standards for data security, thereby mitigating the risks associated with unauthorized access and cyber threats.

### Regulatory and Standards Hurdles

Navigating complex regulatory landscapes and achieving standardization in the Global Smart Gas Meter Market presents a significant challenge for industry stakeholders. Regulations governing the deployment of smart gas meters vary across regions, creating a fragmented market with diverse requirements and compliance standards. Utility companies operating in multiple jurisdictions must contend with different

regulatory frameworks, which can hinder the seamless integration and scalability of smart metering solutions.

Furthermore, the absence of universal standards for smart gas meters poses challenges in interoperability and compatibility. Different manufacturers may design meters with varying communication protocols and data formats, complicating the integration of diverse devices into a cohesive system. Achieving a standardized approach is crucial for creating an open and interoperable ecosystem, enabling seamless communication between smart gas meters and other components of the smart grid.

To address these challenges, industry stakeholders, including regulatory bodies, utility companies, and technology providers, must collaborate to establish common standards and frameworks. Streamlining regulatory processes and fostering international cooperation can facilitate the development of a more cohesive and globally integrated Smart Gas Meter Market, overcoming hurdles related to compliance and interoperability.

## Key Market Trends

### Integration with Advanced Analytics and Artificial Intelligence

An emerging trend in the Global Smart Gas Meter Market is the integration of advanced analytics and artificial intelligence (AI) to unlock new levels of operational efficiency and decision-making capabilities. Smart gas meters generate vast amounts of data related to gas consumption patterns, equipment performance, and system status. Leveraging advanced analytics and AI allows utility companies to extract valuable insights from this data, enabling predictive maintenance, demand forecasting, and optimization of gas distribution networks.

One key application of advanced analytics is predictive maintenance, where AI algorithms analyze data from smart gas meters to predict equipment failures or issues before they occur. This proactive approach reduces downtime, extends the lifespan of equipment, and enhances overall system reliability. Additionally, demand forecasting powered by advanced analytics helps utility companies anticipate peak usage periods, enabling them to optimize resource allocation and ensure a steady and reliable gas supply to consumers.

Moreover, AI-driven analytics contribute to the development of more customer-centric

services. By understanding consumption patterns and preferences, utility companies can tailor pricing plans and energy-saving recommendations to individual consumers, fostering a more efficient use of resources. The integration of these technologies marks a trend towards a more intelligent and data-driven approach to gas distribution, positioning the Global Smart Gas Meter Market at the forefront of the broader digital transformation in the energy sector.

### Expansion of Smart Gas Metering in Developing Economies

A notable trend in the Global Smart Gas Meter Market is the increasing adoption and expansion of smart gas metering in developing economies. While the initial deployment of smart meters was concentrated in developed regions, there is a growing recognition of the benefits of these technologies in emerging markets. As these economies undergo urbanization and industrialization, the demand for efficient and sustainable energy management solutions is on the rise, driving the adoption of smart gas meters.

In many developing economies, traditional gas metering infrastructure may be outdated or inefficient, leading to issues such as inaccurate billing and difficulties in monitoring and managing gas distribution. Smart gas meters offer a solution to these challenges by providing real-time data, remote monitoring capabilities, and improved accuracy in meter readings. The deployment of smart gas meters in developing economies aligns with broader efforts to modernize utility infrastructure and enhance energy efficiency.

Additionally, the expansion of smart gas metering in developing economies is often supported by government initiatives, regulatory frameworks, and international collaborations. Governments recognize the potential of smart metering technologies to address energy challenges, reduce losses in gas distribution, and enhance overall infrastructure resilience. As a result, utility companies in these regions are increasingly investing in smart gas metering solutions, contributing to the global growth of the market. This trend signifies a shift towards a more inclusive and widespread adoption of smart gas meters, making advanced metering technologies accessible to a larger global population.

### Segmental Insights

#### Type Insights

The Smart Ultrasonic Gas Meter segment emerged as the dominating segment in 2022. This advanced metering technology utilizes ultrasonic sensors to measure gas flow,

offering several advantages over traditional mechanical meters. Smart Ultrasonic Gas Meters are known for their high precision and accuracy in measuring gas flow. Unlike mechanical meters, which may experience wear and tear over time, ultrasonic technology ensures consistent and reliable measurements. The ability to provide accurate data on gas consumption is a significant driver for the adoption of Smart Ultrasonic Gas Meters, especially in applications where precise measurement is crucial.

The non-intrusive nature of ultrasonic measurements contributes to the longevity and durability of Smart Ultrasonic Gas Meters. With no moving parts prone to mechanical failure, these meters require less maintenance, reducing operational costs for utility companies. The longer lifespan and lower maintenance requirements make Smart Ultrasonic Gas Meters an attractive investment for both utility providers and end-users.

A notable trend in the Smart Ultrasonic Gas Meter segment is the integration with the Internet of Things (IoT) and advanced communication technologies. This integration enhances connectivity, allowing for seamless communication between meters and central systems. The ability to transmit real-time data efficiently contributes to the development of smart grids and smart cities.

### Component Insights

The Hardware segment is projected to experience rapid growth during the forecast period. The hardware segment is a crucial component of the Global Smart Gas Meter Market, encompassing the physical devices and components that enable the measurement, communication, and management of gas consumption.

The continuous evolution of technology is a primary driver for innovation within the hardware segment of smart gas meters. Advancements in sensor technologies, communication modules, and materials used in meter construction contribute to the development of more accurate, reliable, and efficient hardware solutions. As technology progresses, hardware components become more sophisticated, enabling improved functionalities and enhanced performance.

Regulatory initiatives and mandates play a significant role in driving the adoption of smart gas meters, influencing the specifications and features of hardware components. Governments and regulatory bodies around the world are increasingly advocating for the deployment of smart meters to achieve energy efficiency and sustainability goals. Compliance with these mandates often requires the integration of specific hardware features, such as communication protocols and data encryption, driving innovation

within the hardware segment.

There is a growing trend toward designing hardware components with a focus on durability and longevity. Smart gas meters are expected to have a long lifespan with minimal maintenance requirements. The selection of robust materials and the use of components resistant to environmental factors contribute to the development of hardware solutions that can withstand various operating conditions, ensuring a reliable and extended service life.

## Regional Insights

Europe emerged as the dominating region in 2022, holding the largest market share. Europe has been at the forefront of implementing regulatory initiatives and mandates aimed at modernizing utility infrastructures and promoting energy efficiency. The European Union's directives, such as the Clean Energy for All Europeans package, set ambitious targets for reducing greenhouse gas emissions and increasing the share of renewable energy. These directives drive the widespread adoption of smart gas meters as part of a comprehensive strategy to achieve sustainability goals.

European countries place a strong emphasis on energy efficiency and reducing carbon footprints. Smart gas meters play a crucial role in this context by providing real-time data on gas consumption, enabling consumers and utility companies to optimize energy usage. The ability to monitor and manage gas consumption efficiently aligns with Europe's commitment to building a more energy-efficient and sustainable future.

Europe is witnessing a trend toward the widespread deployment of Advanced Metering Infrastructure (AMI), which includes the integration of smart gas meters into comprehensive smart grid systems. AMI enables bidirectional communication between meters and central systems, facilitating real-time data exchange and remote monitoring. This trend aligns with Europe's vision of building more resilient and efficient energy networks.

The integration of renewable energy sources into the grid is a notable trend in Europe. Smart gas meters play a role in this trend by providing data that enables better integration and management of renewable gas sources. The ability to monitor and balance the use of renewable gases contributes to the region's transition toward a more sustainable and diversified energy mix.

In conclusion, Europe's role in the Global Smart Gas Meter Market is characterized by



regulatory support, a focus on energy efficiency, and a commitment to technological innovation. While challenges related to data privacy and cost implications persist, ongoing trends such as the deployment of AMI and the integration of renewable energy sources indicate a positive trajectory for the continued growth of the smart gas metering market in the region.

### Key Market Players

Landis + GYR Group AG

Wasion Group Holdings

Elster Group GmbH

Itron Inc.

Azbil Kimmon Co. Ltd

Sagemcom SAS

Diehl Stiftung GmbH & Co. KG

Holley Technology Ltd

Apator SA

Yazaki Corporation Source

### Report Scope:

In this report, the Global Smart Gas Meter Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Smart Gas Meter Market, By Technology:

AMR

AMI

Smart Gas Meter Market, By Type:

Smart Ultrasonic Gas Meter

Smart Diaphragm Gas Meter

Smart Gas Meter Market, By Component:

Hardware

Software

Smart Gas Meter Market, By End User:

Residential

Commercial

Industrial

Smart Gas Meter Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Netherlands

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Thailand

Malaysia

South America

Brazil

Argentina

Colombia

Chile

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

### Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global Smart Gas Meter Market.

### Available Customizations:

Global Smart Gas Meter 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
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1. Secondary Research
  - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1. The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

### **3. EXECUTIVE SUMMARY**

### **4. IMPACT OF COVID-19 ON GLOBAL SMART GAS METER MARKET**

### **5. VOICE OF CUSTOMER**

### **6. GLOBAL SMART GAS METER MARKET OVERVIEW**

### **7. GLOBAL SMART GAS METER MARKET OUTLOOK**

## 7.1. Market Size & Forecast

### 7.1.1. By Value

## 7.2. Market Share & Forecast

### 7.2.1. By Technology (AMR and AMI)

### 7.2.2. By Type (Smart Ultrasonic Gas Meter and Smart Diaphragm Gas Meter)

### 7.2.3. By Component (Hardware and Software)

### 7.2.4. By End User (Residential, Commercial and Industrial)

### 7.2.5. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

## 7.3. By Company (2022)

## 7.4. Market Map

# 8. NORTH AMERICA SMART GAS METER MARKET OUTLOOK

## 8.1. Market Size & Forecast

### 8.1.1. By Value

## 8.2. Market Share & Forecast

### 8.2.1. By Technology

### 8.2.2. By Type

### 8.2.3. By Component

### 8.2.4. By End User

### 8.2.5. By Country

## 8.3. North America: Country Analysis

### 8.3.1. United States Smart Gas Meter 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 Technology

##### 8.3.1.2.2. By Type

##### 8.3.1.2.3. By Component

##### 8.3.1.2.4. By End User

### 8.3.2. Canada Smart Gas Meter 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 Technology

##### 8.3.2.2.2. By Type

##### 8.3.2.2.3. By Component

- 8.3.2.2.4. By End User
- 8.3.3. Mexico Smart Gas Meter 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 Technology
    - 8.3.3.2.2. By Type
    - 8.3.3.2.3. By Component
    - 8.3.3.2.4. By End User

## **9. EUROPE SMART GAS METER MARKET OUTLOOK**

- 9.1. Market Size & Forecast
  - 9.1.1. By Value
- 9.2. Market Share & Forecast
  - 9.2.1. By Technology
  - 9.2.2. By Type
  - 9.2.3. By Component
  - 9.2.4. By End User
  - 9.2.5. By Country
- 9.3. Europe: Country Analysis
  - 9.3.1. Germany Smart Gas Meter 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 Technology
      - 9.3.1.2.2. By Type
      - 9.3.1.2.3. By Component
      - 9.3.1.2.4. By End User
  - 9.3.2. France Smart Gas Meter 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 Technology
      - 9.3.2.2.2. By Type
      - 9.3.2.2.3. By Component
      - 9.3.2.2.4. By End User
  - 9.3.3. United Kingdom Smart Gas Meter Market Outlook
    - 9.3.3.1. Market Size & Forecast

- 9.3.3.1.1. By Value
- 9.3.3.2. Market Share & Forecast
  - 9.3.3.2.1. By Technology
  - 9.3.3.2.2. By Type
  - 9.3.3.2.3. By Component
  - 9.3.3.2.4. By End User
- 9.3.4. Italy Smart Gas Meter Market Outlook
  - 9.3.4.1. Market Size & Forecast
    - 9.3.4.1.1. By Value
  - 9.3.4.2. Market Share & Forecast
    - 9.3.4.2.1. By Technology
    - 9.3.4.2.2. By Type
    - 9.3.4.2.3. By Component
    - 9.3.4.2.4. By End User
- 9.3.5. Spain Smart Gas Meter Market Outlook
  - 9.3.5.1. Market Size & Forecast
    - 9.3.5.1.1. By Value
  - 9.3.5.2. Market Share & Forecast
    - 9.3.5.2.1. By Technology
    - 9.3.5.2.2. By Type
    - 9.3.5.2.3. By Component
    - 9.3.5.2.4. By End User
- 9.3.6. Netherlands Smart Gas Meter Market Outlook
  - 9.3.6.1. Market Size & Forecast
    - 9.3.6.1.1. By Value
  - 9.3.6.2. Market Share & Forecast
    - 9.3.6.2.1. By Technology
    - 9.3.6.2.2. By Type
    - 9.3.6.2.3. By Component
    - 9.3.6.2.4. By End User
- 9.3.7. Belgium Smart Gas Meter Market Outlook
  - 9.3.7.1. Market Size & Forecast
    - 9.3.7.1.1. By Value
  - 9.3.7.2. Market Share & Forecast
    - 9.3.7.2.1. By Technology
    - 9.3.7.2.2. By Type
    - 9.3.7.2.3. By Component
    - 9.3.7.2.4. By End User



## 10. SOUTH AMERICA SMART GAS METER MARKET OUTLOOK

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Technology

#### 10.2.2. By Type

#### 10.2.3. By Component

#### 10.2.4. By End User

#### 10.2.5. By Country

### 10.3. South America: Country Analysis

#### 10.3.1. Brazil Smart Gas Meter 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 Technology

###### 10.3.1.2.2. By Type

###### 10.3.1.2.3. By Component

###### 10.3.1.2.4. By End User

#### 10.3.2. Colombia Smart Gas Meter 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 Technology

###### 10.3.2.2.2. By Type

###### 10.3.2.2.3. By Component

###### 10.3.2.2.4. By End User

#### 10.3.3. Argentina Smart Gas Meter 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 Technology

###### 10.3.3.2.2. By Type

###### 10.3.3.2.3. By Component

###### 10.3.3.2.4. By End User

#### 10.3.4. Chile Smart Gas Meter 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 Technology
- 10.3.4.2.2. By Type
- 10.3.4.2.3. By Component
- 10.3.4.2.4. By End User

## **11. MIDDLE EAST & AFRICA SMART GAS METER MARKET OUTLOOK**

### 11.1. Market Size & Forecast

- 11.1.1. By Value

### 11.2. Market Share & Forecast

- 11.2.1. By Technology
- 11.2.2. By Type
- 11.2.3. By Component
- 11.2.4. By End User
- 11.2.5. By Country

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

#### 11.3.1. Saudi Arabia Smart Gas Meter Market Outlook

- 11.3.1.1. Market Size & Forecast
  - 11.3.1.1.1. By Value
- 11.3.1.2. Market Share & Forecast
  - 11.3.1.2.1. By Technology
  - 11.3.1.2.2. By Type
  - 11.3.1.2.3. By Component
  - 11.3.1.2.4. By End User

#### 11.3.2. UAE Smart Gas Meter Market Outlook

- 11.3.2.1. Market Size & Forecast
  - 11.3.2.1.1. By Value
- 11.3.2.2. Market Share & Forecast
  - 11.3.2.2.1. By Technology
  - 11.3.2.2.2. By Type
  - 11.3.2.2.3. By Component
  - 11.3.2.2.4. By End User

#### 11.3.3. South Africa Smart Gas Meter Market Outlook

- 11.3.3.1. Market Size & Forecast
  - 11.3.3.1.1. By Value
- 11.3.3.2. Market Share & Forecast
  - 11.3.3.2.1. By Technology
  - 11.3.3.2.2. By Type
  - 11.3.3.2.3. By Component

- 11.3.3.2.4. By End User
- 11.3.4. Turkey Smart Gas Meter Market Outlook
  - 11.3.4.1. Market Size & Forecast
    - 11.3.4.1.1. By Value
  - 11.3.4.2. Market Share & Forecast
    - 11.3.4.2.1. By Technology
    - 11.3.4.2.2. By Type
    - 11.3.4.2.3. By Component
    - 11.3.4.2.4. By End User

## **12. ASIA PACIFIC SMART GAS METER MARKET OUTLOOK**

- 12.1. Market Size & Forecast
  - 12.1.1. By Technology
  - 12.1.2. By Type
  - 12.1.3. By Component
  - 12.1.4. By End User
  - 12.1.5. By Country
- 12.2. Asia-Pacific: Country Analysis
  - 12.2.1. China Smart Gas Meter Market Outlook
    - 12.2.1.1. Market Size & Forecast
      - 12.2.1.1.1. By Value
    - 12.2.1.2. Market Share & Forecast
      - 12.2.1.2.1. By Technology
      - 12.2.1.2.2. By Type
      - 12.2.1.2.3. By Component
      - 12.2.1.2.4. By End User
  - 12.2.2. India Smart Gas Meter Market Outlook
    - 12.2.2.1. Market Size & Forecast
      - 12.2.2.1.1. By Value
    - 12.2.2.2. Market Share & Forecast
      - 12.2.2.2.1. By Technology
      - 12.2.2.2.2. By Type
      - 12.2.2.2.3. By Component
      - 12.2.2.2.4. By End User
  - 12.2.3. Japan Smart Gas Meter Market Outlook
    - 12.2.3.1. Market Size & Forecast
      - 12.2.3.1.1. By Value
    - 12.2.3.2. Market Share & Forecast

- 12.2.3.2.1. By Technology
- 12.2.3.2.2. By Type
- 12.2.3.2.3. By Component
- 12.2.3.2.4. By End User
- 12.2.4. South Korea Smart Gas Meter Market Outlook
  - 12.2.4.1. Market Size & Forecast
    - 12.2.4.1.1. By Value
  - 12.2.4.2. Market Share & Forecast
    - 12.2.4.2.1. By Technology
    - 12.2.4.2.2. By Type
    - 12.2.4.2.3. By Component
    - 12.2.4.2.4. By End User
- 12.2.5. Australia Smart Gas Meter Market Outlook
  - 12.2.5.1. Market Size & Forecast
    - 12.2.5.1.1. By Value
  - 12.2.5.2. Market Share & Forecast
    - 12.2.5.2.1. By Technology
    - 12.2.5.2.2. By Type
    - 12.2.5.2.3. By Component
    - 12.2.5.2.4. By End User
- 12.2.6. Thailand Smart Gas Meter Market Outlook
  - 12.2.6.1. Market Size & Forecast
    - 12.2.6.1.1. By Value
  - 12.2.6.2. Market Share & Forecast
    - 12.2.6.2.1. By Technology
    - 12.2.6.2.2. By Type
    - 12.2.6.2.3. By Component
    - 12.2.6.2.4. By End User
- 12.2.7. Malaysia Smart Gas Meter Market Outlook
  - 12.2.7.1. Market Size & Forecast
    - 12.2.7.1.1. By Value
  - 12.2.7.2. Market Share & Forecast
    - 12.2.7.2.1. By Technology
    - 12.2.7.2.2. By Type
    - 12.2.7.2.3. By Component
    - 12.2.7.2.4. By End User

## **13. MARKET DYNAMICS**

- 13.1. Drivers
- 13.2. Challenges

## **14. MARKET TRENDS AND DEVELOPMENTS**

## **15. COMPANY PROFILES**

- 15.1. Landis + GYR Group AG
  - 15.1.1. Business Overview
  - 15.1.2. Key Revenue and Financials
  - 15.1.3. Recent Developments
  - 15.1.4. Key Personnel/Key Contact Person
  - 15.1.5. Key Product/Services Offered
- 15.2. Wasion Group Holdings
  - 15.2.1. Business Overview
  - 15.2.2. Key Revenue and Financials
  - 15.2.3. Recent Developments
  - 15.2.4. Key Personnel/Key Contact Person
  - 15.2.5. Key Product/Services Offered
- 15.3. Elster Group GmbH
  - 15.3.1. Business Overview
  - 15.3.2. Key Revenue and Financials
  - 15.3.3. Recent Developments
  - 15.3.4. Key Personnel/Key Contact Person
  - 15.3.5. Key Product/Services Offered
- 15.4. Itron Inc.
  - 15.4.1. Business Overview
  - 15.4.2. Key Revenue and Financials
  - 15.4.3. Recent Developments
  - 15.4.4. Key Personnel/Key Contact Person
  - 15.4.5. Key Product/Services Offered
- 15.5. Azbil Kimmon Co. Ltd
  - 15.5.1. Business Overview
  - 15.5.2. Key Revenue and Financials
  - 15.5.3. Recent Developments
  - 15.5.4. Key Personnel/Key Contact Person
  - 15.5.5. Key Product/Services Offered
- 15.6. Sagemcom SAS

- 15.6.1. Business Overview
- 15.6.2. Key Revenue and Financials
- 15.6.3. Recent Developments
- 15.6.4. Key Personnel/Key Contact Person
- 15.6.5. Key Product/Services Offered
- 15.7. Diehl Stiftung GmbH & Co. KG
  - 15.7.1. Business Overview
  - 15.7.2. Key Revenue and Financials
  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel/Key Contact Person
  - 15.7.5. Key Product/Services Offered
- 15.8. Holley Technology Ltd
  - 15.8.1. Business Overview
  - 15.8.2. Key Revenue and Financials
  - 15.8.3. Recent Developments
  - 15.8.4. Key Personnel/Key Contact Person
  - 15.8.5. Key Product/Services Offered
- 15.9. Apator SA
  - 15.9.1. Business Overview
  - 15.9.2. Key Revenue and Financials
  - 15.9.3. Recent Developments
  - 15.9.4. Key Personnel/Key Contact Person
  - 15.9.5. Key Product/Services Offered
- 15.10. Yazaki Corporation Source
  - 15.10.1. Business Overview
  - 15.10.2. Key Revenue and Financials
  - 15.10.3. Recent Developments
  - 15.10.4. Key Personnel/Key Contact Person
  - 15.10.5. Key Product/Services Offered

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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