

Global Non-Invasive Flow Sensor Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G4630E0FA423EN.html>

Date: July 2023

Pages: 107

Price: US\$ 4,480.00 (Single User License)

ID: G4630E0FA423EN

Abstracts

The global Non-Invasive Flow Sensor market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Non-invasive flow sensor is a device used to measure the flow rate of a fluid without direct contact or intrusion into the flow stream. It is designed to monitor fluid flow in a non-intrusive manner, eliminating the need for physical components within the flow path.

The detailed definition of a non-invasive flow sensor includes the following aspects:

- 1. Operation Principle:** Non-invasive flow sensors utilize various principles and techniques to measure flow without physical contact with the fluid. Commonly used methods include ultrasonic, magnetic, thermal, optical, or Doppler-based technologies. These principles rely on the detection and analysis of changes or disturbances caused by the flowing fluid.
- 2. Installation and Mounting:** Non-invasive flow sensors are typically mounted externally to the pipe or conduit that carries the fluid. They may be clamped or attached to the outer surface of the pipe or mounted nearby to measure flow using non-contact methods. This installation allows measurement without requiring any modification or interruption of the flow stream.
- 3. Measurement Accuracy:** Non-invasive flow sensors provide flow rate measurements with a certain level of accuracy and precision. The accuracy may vary depending on the technology used, the conditions of the application, and the calibration of the sensor. It is essential to consider factors such as fluid properties, pipe material, pipe diameter, and

installation parameters to optimize the accuracy of the measurement.

4. Application Range: Non-invasive flow sensors are suitable for a wide range of fluids, including liquids and gases. They find applications in industries such as water management, HVAC systems, industrial processes, energy management, and research, where non-intrusive flow measurement is desired or necessary.

5. Output and Data Analysis: Non-invasive flow sensors provide real-time data and often offer digital or analog output signals to monitor and record flow rate measurements. They may integrate with data acquisition systems, control systems, or display units for further data analysis, control, or integration into larger monitoring or control networks.

Non-invasive flow sensors offer benefits such as minimal disruption to the flow process, reduced maintenance requirements, lower risk of contamination or blockage, and easy retrofitting to existing systems. However, it is important to ensure compatibility with the application requirements, accounting for factors such as pipe size, pipe material, fluid properties, flow profile, and flow rate range when selecting a non-invasive flow sensor for a specific application.

This report studies the global Non-Invasive Flow Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-Invasive Flow Sensor, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Non-Invasive Flow Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Non-Invasive Flow Sensor total production and demand, 2018-2029, (K Units)

Global Non-Invasive Flow Sensor total production value, 2018-2029, (USD Million)

Global Non-Invasive Flow Sensor production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Non-Invasive Flow Sensor consumption by region & country, CAGR, 2018-2029

& (K Units)

U.S. VS China: Non-Invasive Flow Sensor domestic production, consumption, key domestic manufacturers and share

Global Non-Invasive Flow Sensor production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Non-Invasive Flow Sensor production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Non-Invasive Flow Sensor production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Non-Invasive Flow Sensor market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bell Flow Systems, FLEXIM, Fluigent, Fuji Electric, Halley & Mellowes, High Purity New England, Introtek, Lanry and PCE Instruments, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Non-Invasive Flow Sensor market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Non-Invasive Flow Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-Invasive Flow Sensor Market, Segmentation by Type

Fixed Type

Portable Type

Global Non-Invasive Flow Sensor Market, Segmentation by Application

Pharmaceutical Industry

Chemical Industry

Medical Industry

Semiconductor Industry

Others

Companies Profiled:

Bell Flow Systems

FLEXIM

Fluigent

Fuji Electric

Halley & Mellowes

High Purity New England

Introtek

Lanry

PCE Instruments

Pulsar

RS Hydro

Sentinel Process Systems

Siemens

SONOTEC

Key Questions Answered

1. How big is the global Non-Invasive Flow Sensor market?
2. What is the demand of the global Non-Invasive Flow Sensor market?
3. What is the year over year growth of the global Non-Invasive Flow Sensor market?
4. What is the production and production value of the global Non-Invasive Flow Sensor market?
5. Who are the key producers in the global Non-Invasive Flow Sensor market?

6. What are the growth factors driving the market demand?

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