

# **Microfluidic Control Device Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type**

<https://marketpublishers.com/r/MBC3ECCB3A06EN.html>

Date: April 2025

Pages: 105

Price: US\$ 3,200.00 (Single User License)

ID: MBC3ECCB3A06EN

## **Abstracts**

### **Microfluidic Control Device Market Summary**

#### **Introduction**

Microfluidic control devices are precision-engineered systems that manipulate small volumes of fluids at the microscale, revolutionizing applications in diagnostics, drug development, and environmental analysis. The industry is defined by its emphasis on miniaturization, high throughput, and integration with advanced sensors, enabling rapid and accurate processing in compact formats. These devices are pivotal in biomedical research, chemical synthesis, and monitoring systems, driven by demand for point-of-care testing, personalized medicine, and real-time data analysis. Innovations in materials, automation, and integration with digital platforms propel the market, making microfluidic control devices a cornerstone of modern scientific and industrial advancements.

#### **Market Size and Growth Forecast**

The global microfluidic control device market was valued at USD 13.5 billion to USD 18.9 billion in 2024, with a projected CAGR of 8.0% to 10.0% from 2025 to 2030. This growth reflects expanding applications across industries and continuous technological progress.

#### **Regional Analysis**

North America grows at 7-9%, led by the United States' robust biotech sector and R&D investments, with Canada advancing in environmental applications; trends focus on integrated diagnostic solutions.

Europe experiences a growth rate of 8-10%, with Germany and the UK driving biomedical innovations, while France excels in chemical analysis; trends emphasize sustainable materials.

Asia Pacific sees a growth rate of 9-11%, with China and Japan leading in manufacturing and healthcare adoption, while India focuses on affordable diagnostics; trends highlight scalability and cost reduction.

The Rest of the World grows at 6-9%, with Brazil and Australia expanding in environmental monitoring; trends prioritize portable, user-friendly devices.

### Application Analysis

Biomedical Science grows at 9-11%, driven by drug discovery and diagnostics; trends focus on lab-on-chip systems for precision medicine.

Chemical Analysis grows at 8-10%, fueled by real-time reaction monitoring; trends emphasize automation and high-throughput screening.

Environmental Monitoring grows at 7-9%, supporting water and air quality analysis; trends target portable, field-deployable devices.

Others, such as food safety, grow at 6-8%, with niche applications in quality control; trends explore integration with IoT technologies.

### Product Type Analysis

Low-integration Microfluidic Control Device grows at 7-9%, offering cost-effective solutions for basic applications; trends favor simplicity and accessibility.

High-integration Microfluidic Control Device grows at 9-11%, providing advanced functionality for complex tasks; trends emphasize multi-functionality and connectivity.

### Key Market Players

Bio-Rad Laboratories, based in Hercules, California, USA, excels in life sciences, offering microfluidic devices for high-precision biological analysis and diagnostics in research labs worldwide.

Illumina, from San Diego, California, USA, specializes in genomic solutions, producing microfluidic systems that enhance sequencing speed and accuracy for biomedical applications.

PerkinElmer, headquartered in Waltham, Massachusetts, USA, focuses on analytical tools, delivering microfluidic devices for chemical and environmental testing with robust performance.

Philips, based in Amsterdam, Netherlands, integrates microfluidics into healthcare solutions, creating devices for rapid diagnostics and patient monitoring in clinical settings.

Thermo Fisher Scientific, from Waltham, Massachusetts, USA, provides versatile microfluidic platforms, supporting a wide range of scientific and industrial applications with cutting-edge technology.

Biomerieux, headquartered in Marcy-l'Étoile, France, targets diagnostics, offering microfluidic devices for microbial detection and clinical analysis across Europe and beyond.

Qiagen, from Hilden, Germany, specializes in molecular diagnostics, producing microfluidic systems that streamline sample preparation and genetic analysis globally.

Atlantis Bioscience, based in Singapore, serves Asia's research community with microfluidic solutions tailored for biomedical and environmental studies, emphasizing regional needs.

Agilent Technologies, headquartered in Santa Clara, California, USA, delivers high-performance microfluidic devices for chemical and biological analysis in diverse industries.

Sphere Fluidics, from Cambridge, UK, innovates in single-cell analysis, offering microfluidic platforms that enhance precision in drug discovery and research.

ALine Inc., based in Rancho Dominguez, California, USA, focuses on custom microfluidic solutions, supporting prototyping and production for specialized applications.

Fluigent, headquartered in Le Kremlin-Bicêtre, France, provides advanced fluid control systems, enabling precise microfluidic manipulation for research and industry.

LabSmith, from Livermore, California, USA, offers compact microfluidic tools, catering to educational and research labs with user-friendly designs.

Dolomite, based in Royston, UK, excels in microfluidic engineering, producing devices for high-throughput chemical and biological experiments.

ALPS ALPINE, headquartered in Tokyo, Japan, integrates microfluidics into industrial applications, focusing on precision manufacturing and scalability.

Ravata, from San Francisco, California, USA, targets biotech innovation, offering microfluidic systems for cellular analysis and therapeutic development.

Axxicon, based in Helmond, Netherlands, specializes in microfabrication, producing components for microfluidic devices used in diagnostics and research.

AGC Inc., headquartered in Tokyo, Japan, leverages its material expertise to create durable microfluidic platforms for industrial and scientific use.

CPS Fluidics, from Cambridge, Massachusetts, USA, focuses on fluid dynamics, delivering microfluidic solutions for complex analytical tasks.

FluidicLab, based in Paris, France, provides innovative microfluidic systems, supporting research and industrial applications with advanced control technologies.

#### Porter's Five Forces Analysis

The threat of new entrants is moderate, as high technical expertise and investment deter entry, though niche markets offer opportunities.

The threat of substitutes is moderate, with traditional lab methods competing, but microfluidics' speed and precision maintain dominance.

Buyer power is moderate to high, as research institutions demand customization, though specialized applications limit alternatives.

Supplier power is moderate, with materials like polymers and glass controlled by key players, balanced by diverse sourcing options.

Competitive rivalry is high, with firms differentiating through integration, scalability, and application-specific solutions, fostering innovation.

## Market Opportunities and Challenges

### Opportunities

Growing demand for point-of-care diagnostics boosts adoption.

Advancements in personalized medicine expand biomedical uses.

Environmental regulations drive monitoring applications.

### Challenges

High development costs limit scalability.

Complex manufacturing processes hinder mass production.

Regulatory approvals delay market entry for medical uses.

## Merger and Acquisition News

Nippon Shokubai Announces Shares Acquisition of Lilac Pharma (Date: September 10, 2024): This acquisition enhances Nippon Shokubai's microfluidic portfolio by integrating Lilac Pharma's expertise in pharmaceutical microfluidics, potentially accelerating drug development applications and strengthening its position in biomedical sciences.

Repligen Purchases Bioprocessing Analytics Portfolio from 908 Devices (Date: August 20, 2024): Repligen's acquisition bolsters its microfluidic analytics capabilities,

enhancing real-time monitoring for bioprocessing, which could expand its chemical analysis market share.

**908 Devices Acquires RedWave Technology, Expanding its Forensics Product Offering**  
(Date: October 5, 2024): This acquisition strengthens 908 Devices' microfluidic offerings in chemical analysis, particularly for environmental and forensic applications, broadening its market reach.

## Contents

### **CHAPTER 1 EXECUTIVE SUMMARY**

### **CHAPTER 2 ABBREVIATION AND ACRONYMS**

### **CHAPTER 3 PREFACE**

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

### **CHAPTER 5 MARKET TREND ANALYSIS**

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

### **CHAPTER 6 INDUSTRY CHAIN ANALYSIS**

6.1 Upstream/Suppliers Analysis

6.2 Microfluidic Control Device Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

### **CHAPTER 7 LATEST MARKET DYNAMICS**

7.1 Latest News

7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

## **CHAPTER 8 HISTORICAL AND FORECAST MICROFLUIDIC CONTROL DEVICE MARKET IN NORTH AMERICA (2020-2030)**

8.1 Microfluidic Control Device Market Size

8.2 Microfluidic Control Device Market by End Use

8.3 Competition by Players/Suppliers

8.4 Microfluidic Control Device Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

## **CHAPTER 9 HISTORICAL AND FORECAST MICROFLUIDIC CONTROL DEVICE MARKET IN SOUTH AMERICA (2020-2030)**

9.1 Microfluidic Control Device Market Size

9.2 Microfluidic Control Device Market by End Use

9.3 Competition by Players/Suppliers

9.4 Microfluidic Control Device Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

## **CHAPTER 10 HISTORICAL AND FORECAST MICROFLUIDIC CONTROL DEVICE MARKET IN ASIA & PACIFIC (2020-2030)**

10.1 Microfluidic Control Device Market Size

10.2 Microfluidic Control Device Market by End Use

10.3 Competition by Players/Suppliers

10.4 Microfluidic Control Device Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan



- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

## **CHAPTER 11 HISTORICAL AND FORECAST MICROFLUIDIC CONTROL DEVICE MARKET IN EUROPE (2020-2030)**

- 11.1 Microfluidic Control Device Market Size
- 11.2 Microfluidic Control Device Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Microfluidic Control Device Market Size by Type
- 11.5 Key Countries Analysis
  - 11.5.1 Germany
  - 11.5.2 France
  - 11.5.3 United Kingdom
  - 11.5.4 Italy
  - 11.5.5 Spain
  - 11.5.6 Belgium
  - 11.5.7 Netherlands
  - 11.5.8 Austria
  - 11.5.9 Poland
  - 11.5.10 Russia

## **CHAPTER 12 HISTORICAL AND FORECAST MICROFLUIDIC CONTROL DEVICE MARKET IN MEA (2020-2030)**

- 12.1 Microfluidic Control Device Market Size
- 12.2 Microfluidic Control Device Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Microfluidic Control Device Market Size by Type
- 12.5 Key Countries Analysis
  - 12.5.1 Egypt
  - 12.5.2 Israel
  - 12.5.3 South Africa
  - 12.5.4 Gulf Cooperation Council Countries
  - 12.5.5 Turkey

## **CHAPTER 13 SUMMARY FOR GLOBAL MICROFLUIDIC CONTROL DEVICE MARKET (2020-2025)**

- 13.1 Microfluidic Control Device Market Size
- 13.2 Microfluidic Control Device Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Microfluidic Control Device Market Size by Type

## **CHAPTER 14 GLOBAL MICROFLUIDIC CONTROL DEVICE MARKET FORECAST (2025-2030)**

- 14.1 Microfluidic Control Device Market Size Forecast
- 14.2 Microfluidic Control Device Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Microfluidic Control Device Type Forecast

## **CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS**

- 15.1 Bio-Rad-Laboratories
  - 15.1.1 Company Profile
  - 15.1.2 Main Business and Microfluidic Control Device Information
  - 15.1.3 SWOT Analysis of Bio-Rad-Laboratories
  - 15.1.4 Bio-Rad-Laboratories Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Illumina
  - 15.2.1 Company Profile
  - 15.2.2 Main Business and Microfluidic Control Device Information
  - 15.2.3 SWOT Analysis of Illumina
  - 15.2.4 Illumina Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 PerkinElmer
  - 15.3.1 Company Profile
  - 15.3.2 Main Business and Microfluidic Control Device Information
  - 15.3.3 SWOT Analysis of PerkinElmer
  - 15.3.4 PerkinElmer Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Philips
  - 15.4.1 Company Profile
  - 15.4.2 Main Business and Microfluidic Control Device Information
  - 15.4.3 SWOT Analysis of Philips
  - 15.4.4 Philips Microfluidic Control Device Revenue, Gross Margin and Market Share

(2020-2025)

15.5 Thermo-Fisher-Scientific

15.5.1 Company Profile

15.5.2 Main Business and Microfluidic Control Device Information

15.5.3 SWOT Analysis of Thermo-Fisher-Scientific

15.5.4 Thermo-Fisher-Scientific Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.6 Biomerieux

15.6.1 Company Profile

15.6.2 Main Business and Microfluidic Control Device Information

15.6.3 SWOT Analysis of Biomerieux

15.6.4 Biomerieux Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.7 Qiagen

15.7.1 Company Profile

15.7.2 Main Business and Microfluidic Control Device Information

15.7.3 SWOT Analysis of Qiagen

15.7.4 Qiagen Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.8 Atlantis Bioscience

15.8.1 Company Profile

15.8.2 Main Business and Microfluidic Control Device Information

15.8.3 SWOT Analysis of Atlantis Bioscience

15.8.4 Atlantis Bioscience Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.9 Agilent-Technologies

15.9.1 Company Profile

15.9.2 Main Business and Microfluidic Control Device Information

15.9.3 SWOT Analysis of Agilent-Technologies

15.9.4 Agilent-Technologies Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.10 Sphere-Fluidics

15.10.1 Company Profile

15.10.2 Main Business and Microfluidic Control Device Information

15.10.3 SWOT Analysis of Sphere-Fluidics

15.10.4 Sphere-Fluidics Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.11 ALine inc.

15.11.1 Company Profile

15.11.2 Main Business and Microfluidic Control Device Information

15.11.3 SWOT Analysis of ALine inc.

15.11.4 ALine inc. Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.12 Fluigent

15.12.1 Company Profile

15.12.2 Main Business and Microfluidic Control Device Information

15.12.3 SWOT Analysis of Fluigent

15.12.4 Fluigent Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

15.13 LabSmith

15.13.1 Company Profile

15.13.2 Main Business and Microfluidic Control Device Information

15.13.3 SWOT Analysis of LabSmith

15.13.4 LabSmith Microfluidic Control Device Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Microfluidic Control Device Report

Table Data Sources of Microfluidic Control Device Report

Table Major Assumptions of Microfluidic Control Device Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Microfluidic Control Device Picture

Table Microfluidic Control Device Classification

Table Microfluidic Control Device Applications

Table Drivers of Microfluidic Control Device Market

Table Restraints of Microfluidic Control Device Market

Table Opportunities of Microfluidic Control Device Market

Table Threats of Microfluidic Control Device Market

Table Covid-19 Impact For Microfluidic Control Device Market

Table Raw Materials Suppliers

Table Different Production Methods of Microfluidic Control Device

Table Cost Structure Analysis of Microfluidic Control Device

Table Key End Users

Table Latest News of Microfluidic Control Device Market

Table Merger and Acquisition

Table Planned/Future Project of Microfluidic Control Device Market

Table Policy of Microfluidic Control Device Market

Table 2020-2030 North America Microfluidic Control Device Market Size

Figure 2020-2030 North America Microfluidic Control Device Market Size and CAGR

Table 2020-2030 North America Microfluidic Control Device Market Size by Application

Table 2020-2025 North America Microfluidic Control Device Key Players Revenue

Table 2020-2025 North America Microfluidic Control Device Key Players Market Share

Table 2020-2030 North America Microfluidic Control Device Market Size by Type

Table 2020-2030 United States Microfluidic Control Device Market Size

Table 2020-2030 Canada Microfluidic Control Device Market Size

Table 2020-2030 Mexico Microfluidic Control Device Market Size

Table 2020-2030 South America Microfluidic Control Device Market Size

Figure 2020-2030 South America Microfluidic Control Device Market Size and CAGR

Table 2020-2030 South America Microfluidic Control Device Market Size by Application

Table 2020-2025 South America Microfluidic Control Device Key Players Revenue

Table 2020-2025 South America Microfluidic Control Device Key Players Market Share

Table 2020-2030 South America Microfluidic Control Device Market Size by Type

Table 2020-2030 Brazil Microfluidic Control Device Market Size

Table 2020-2030 Argentina Microfluidic Control Device Market Size

Table 2020-2030 Chile Microfluidic Control Device Market Size

Table 2020-2030 Peru Microfluidic Control Device Market Size

Table 2020-2030 Asia & Pacific Microfluidic Control Device Market Size

Figure 2020-2030 Asia & Pacific Microfluidic Control Device Market Size and CAGR

Table 2020-2030 Asia & Pacific Microfluidic Control Device Market Size by Application

Table 2020-2025 Asia & Pacific Microfluidic Control Device Key Players Revenue

Table 2020-2025 Asia & Pacific Microfluidic Control Device Key Players Market Share

Table 2020-2030 Asia & Pacific Microfluidic Control Device Market Size by Type

Table 2020-2030 China Microfluidic Control Device Market Size

Table 2020-2030 India Microfluidic Control Device Market Size

Table 2020-2030 Japan Microfluidic Control Device Market Size

Table 2020-2030 South Korea Microfluidic Control Device Market Size

Table 2020-2030 Southeast Asia Microfluidic Control Device Market Size

Table 2020-2030 Australia Microfluidic Control Device Market Size

Table 2020-2030 Europe Microfluidic Control Device Market Size

Figure 2020-2030 Europe Microfluidic Control Device Market Size and CAGR

Table 2020-2030 Europe Microfluidic Control Device Market Size by Application

Table 2020-2025 Europe Microfluidic Control Device Key Players Revenue

Table 2020-2025 Europe Microfluidic Control Device Key Players Market Share

Table 2020-2030 Europe Microfluidic Control Device Market Size by Type

Table 2020-2030 Germany Microfluidic Control Device Market Size

Table 2020-2030 France Microfluidic Control Device Market Size
Table 2020-2030 United Kingdom Microfluidic Control Device Market Size
Table 2020-2030 Italy Microfluidic Control Device Market Size
Table 2020-2030 Spain Microfluidic Control Device Market Size
Table 2020-2030 Belgium Microfluidic Control Device Market Size
Table 2020-2030 Netherlands Microfluidic Control Device Market Size
Table 2020-2030 Austria Microfluidic Control Device Market Size
Table 2020-2030 Poland Microfluidic Control Device Market Size
Table 2020-2030 Russia Microfluidic Control Device Market Size
Table 2020-2030 MEA Microfluidic Control Device Market Size
Figure 2020-2030 MEA Microfluidic Control Device Market Size and CAGR
Table 2020-2030 MEA Microfluidic Control Device Market Size by Application
Table 2020-2025 MEA Microfluidic Control Device Key Players Revenue
Table 2020-2025 MEA Microfluidic Control Device Key Players Market Share
Table 2020-2030 MEA Microfluidic Control Device Market Size by Type
Table 2020-2030 Egypt Microfluidic Control Device Market Size
Table 2020-2030 Israel Microfluidic Control Device Market Size
Table 2020-2030 South Africa Microfluidic Control Device Market Size
Table 2020-2030 Gulf Cooperation Council Countries Microfluidic Control Device Market Size
Table 2020-2030 Turkey Microfluidic Control Device Market Size
Table 2020-2025 Global Microfluidic Control Device Market Size by Region
Table 2020-2025 Global Microfluidic Control Device Market Size Share by Region
Table 2020-2025 Global Microfluidic Control Device Market Size by Application
Table 2020-2025 Global Microfluidic Control Device Market Share by Application
Table 2020-2025 Global Microfluidic Control Device Key Vendors Revenue
Figure 2020-2025 Global Microfluidic Control Device Market Size and Growth Rate
Table 2020-2025 Global Microfluidic Control Device Key Vendors Market Share
Table 2020-2025 Global Microfluidic Control Device Market Size by Type
Table 2020-2025 Global Microfluidic Control Device Market Share by Type
Table 2025-2030 Global Microfluidic Control Device Market Size by Region
Table 2025-2030 Global Microfluidic Control Device Market Size Share by Region
Table 2025-2030 Global Microfluidic Control Device Market Size by Application
Table 2025-2030 Global Microfluidic Control Device Market Share by Application
Table 2025-2030 Global Microfluidic Control Device Key Vendors Revenue
Figure 2025-2030 Global Microfluidic Control Device Market Size and Growth Rate
Table 2025-2030 Global Microfluidic Control Device Key Vendors Market Share
Table 2025-2030 Global Microfluidic Control Device Market Size by Type
Table 2025-2030 Microfluidic Control Device Global Market Share by Type



## I would like to order

Product name: Microfluidic Control Device Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

Product link: <https://marketpublishers.com/r/MBC3ECCB3A06EN.html>

Price: US\$ 3,200.00 (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/MBC3ECCB3A06EN.html>