

# Global 2.8K Type Ultra Low Temperature Sensor Market Research Report 2026(Status and Outlook)

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## Abstracts

Ultra-low Temperature Thermistor Sensor is a high-precision sensor specifically designed to detect and measure temperature changes in extremely low-temperature environments. It is commonly used in fields such as medical applications, scientific research, aerospace, superconducting technologies, and cryogenic engineering. This sensor leverages the temperature-sensitive properties of thermistors to accurately measure temperature in ultra-low ranges (typically down to -200°C or lower) by detecting changes in its resistance. Ultra-low temperature thermistor sensors are characterized by fast response times, high accuracy, and excellent stability, providing reliable temperature data for monitoring and controlling critical processes in low-temperature environments.

The global 2.8K Type Ultra Low Temperature Sensor market size was estimated at USD 81.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 3.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global 2.8K Type Ultra Low Temperature Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global 2.8K Type Ultra Low Temperature Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the 2.8K Type Ultra Low Temperature Sensor market.

### **Global 2.8K Type Ultra Low Temperature Sensor Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

#### **Key Company**

IST

Heraeus

SEMITEC

Chino

Lake Shore Cryotronics

Amphenol Corporation

Senstech

Scientific Instruments

Variohm Holdings Incorporated

#### **Market Segmentation (by Type)**

Food Grade  
Industrial Grade

### **Market Segmentation (by Application)**

Industrial  
Aerospace  
Food Industry  
Academic Research  
Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the 2.8K Type Ultra Low Temperature Sensor Market  
Overview of the regional outlook of the 2.8K Type Ultra Low Temperature Sensor Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the 2.8K Type Ultra Low Temperature Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of 2.8K Type Ultra Low Temperature Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share,

product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of 2.8K Type Ultra Low Temperature Sensor
- 1.2 Key Market Segments
  - 1.2.1 2.8K Type Ultra Low Temperature Sensor Segment by Type
  - 1.2.2 2.8K Type Ultra Low Temperature Sensor Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global 2.8K Type Ultra Low Temperature Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global 2.8K Type Ultra Low Temperature Sensor Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global 2.8K Type Ultra Low Temperature Sensor Product Life Cycle
- 3.3 Global 2.8K Type Ultra Low Temperature Sensor Sales by Manufacturers (2020-2025)
- 3.4 Global 2.8K Type Ultra Low Temperature Sensor Revenue Market Share by Manufacturers (2020-2025)
- 3.5 2.8K Type Ultra Low Temperature Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global 2.8K Type Ultra Low Temperature Sensor Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

### 3.8 2.8K Type Ultra Low Temperature Sensor Market Competitive Situation and Trends

#### 3.8.1 2.8K Type Ultra Low Temperature Sensor Market Concentration Rate

#### 3.8.2 Global 5 and 10 Largest 2.8K Type Ultra Low Temperature Sensor Players

#### Market Share by Revenue

#### 3.8.3 Mergers & Acquisitions, Expansion

## **4 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR INDUSTRY CHAIN ANALYSIS**

### 4.1 2.8K Type Ultra Low Temperature Sensor Industry Chain Analysis

### 4.2 Market Overview of Key Raw Materials

### 4.3 Midstream Market Analysis

### 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET**

### 5.1 Key Development Trends

### 5.2 Driving Factors

### 5.3 Market Challenges

### 5.4 Industry News

#### 5.4.1 New Product Developments

#### 5.4.2 Mergers & Acquisitions

#### 5.4.3 Expansions

#### 5.4.4 Collaboration/Supply Contracts

### 5.5 PEST Analysis

#### 5.5.1 Industry Policies Analysis

#### 5.5.2 Economic Environment Analysis

#### 5.5.3 Social Environment Analysis

#### 5.5.4 Technological Environment Analysis

### 5.6 Global 2.8K Type Ultra Low Temperature Sensor Market Porter's Five Forces Analysis

#### 5.6.1 Global Trade Frictions

#### 5.6.2 U.S. Tariff Policy ? April 2025

#### 5.6.3 Global Trade Frictions and Their Impacts to 2.8K Type Ultra Low Temperature Sensor Market

### 5.7 ESG Ratings of Leading Companies

## **6 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Type (2020-2025)
- 6.3 Global 2.8K Type Ultra Low Temperature Sensor Market Size by Type (2020-2025)
- 6.4 Global 2.8K Type Ultra Low Temperature Sensor Price by Type (2020-2025)

## **7 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global 2.8K Type Ultra Low Temperature Sensor Market Sales by Application (2020-2025)
- 7.3 Global 2.8K Type Ultra Low Temperature Sensor Market Size (M USD) by Application (2020-2025)
- 7.4 Global 2.8K Type Ultra Low Temperature Sensor Sales Growth Rate by Application (2020-2025)

## **8 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET SALES BY REGION**

- 8.1 Global 2.8K Type Ultra Low Temperature Sensor Sales by Region
  - 8.1.1 Global 2.8K Type Ultra Low Temperature Sensor Sales by Region
  - 8.1.2 Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Region
- 8.2 Global 2.8K Type Ultra Low Temperature Sensor Market Size by Region
  - 8.2.1 Global 2.8K Type Ultra Low Temperature Sensor Market Size by Region
  - 8.2.2 Global 2.8K Type Ultra Low Temperature Sensor Market Size by Region
- 8.3 North America
  - 8.3.1 North America 2.8K Type Ultra Low Temperature Sensor Sales by Country
  - 8.3.2 North America 2.8K Type Ultra Low Temperature Sensor Market Size by Country
  - 8.3.3 U.S. Market Overview
  - 8.3.4 Canada Market Overview
  - 8.3.5 Mexico Market Overview
- 8.4 Europe
  - 8.4.1 Europe 2.8K Type Ultra Low Temperature Sensor Sales by Country
  - 8.4.2 Europe 2.8K Type Ultra Low Temperature Sensor Market Size by Country
  - 8.4.3 Germany Market Overview
  - 8.4.4 France Market Overview
  - 8.4.5 U.K. Market Overview
  - 8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific 2.8K Type Ultra Low Temperature Sensor Sales by Region

8.5.2 Asia Pacific 2.8K Type Ultra Low Temperature Sensor Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America 2.8K Type Ultra Low Temperature Sensor Sales by Country

8.6.2 South America 2.8K Type Ultra Low Temperature Sensor Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Sales by Region

8.7.2 Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

## **9 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET PRODUCTION BY REGION**

9.1 Global Production of 2.8K Type Ultra Low Temperature Sensor by Region(2020-2025)

9.2 Global 2.8K Type Ultra Low Temperature Sensor Revenue Market Share by Region (2020-2025)

9.3 Global 2.8K Type Ultra Low Temperature Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America 2.8K Type Ultra Low Temperature Sensor Production

9.4.1 North America 2.8K Type Ultra Low Temperature Sensor Production Growth Rate (2020-2025)

9.4.2 North America 2.8K Type Ultra Low Temperature Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe 2.8K Type Ultra Low Temperature Sensor Production

9.5.1 Europe 2.8K Type Ultra Low Temperature Sensor Production Growth Rate (2020-2025)

9.5.2 Europe 2.8K Type Ultra Low Temperature Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan 2.8K Type Ultra Low Temperature Sensor Production (2020-2025)

9.6.1 Japan 2.8K Type Ultra Low Temperature Sensor Production Growth Rate (2020-2025)

9.6.2 Japan 2.8K Type Ultra Low Temperature Sensor Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China 2.8K Type Ultra Low Temperature Sensor Production (2020-2025)

9.7.1 China 2.8K Type Ultra Low Temperature Sensor Production Growth Rate (2020-2025)

9.7.2 China 2.8K Type Ultra Low Temperature Sensor Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 IST

10.1.1 IST Basic Information

10.1.2 IST 2.8K Type Ultra Low Temperature Sensor Product Overview

10.1.3 IST 2.8K Type Ultra Low Temperature Sensor Product Market Performance

10.1.4 IST Business Overview

10.1.5 IST SWOT Analysis

10.1.6 IST Recent Developments

10.2 Heraeus

10.2.1 Heraeus Basic Information

10.2.2 Heraeus 2.8K Type Ultra Low Temperature Sensor Product Overview

10.2.3 Heraeus 2.8K Type Ultra Low Temperature Sensor Product Market Performance

10.2.4 Heraeus Business Overview

10.2.5 Heraeus SWOT Analysis

10.2.6 Heraeus Recent Developments

10.3 SEMITEC

10.3.1 SEMITEC Basic Information

10.3.2 SEMITEC 2.8K Type Ultra Low Temperature Sensor Product Overview

10.3.3 SEMITEC 2.8K Type Ultra Low Temperature Sensor Product Market

## Performance

- 10.3.4 SEMITEC Business Overview
- 10.3.5 SEMITEC SWOT Analysis
- 10.3.6 SEMITEC Recent Developments

## 10.4 Chino

- 10.4.1 Chino Basic Information
- 10.4.2 Chino 2.8K Type Ultra Low Temperature Sensor Product Overview
- 10.4.3 Chino 2.8K Type Ultra Low Temperature Sensor Product Market Performance
- 10.4.4 Chino Business Overview
- 10.4.5 Chino Recent Developments

## 10.5 Lake Shore Cryotronics

- 10.5.1 Lake Shore Cryotronics Basic Information
- 10.5.2 Lake Shore Cryotronics 2.8K Type Ultra Low Temperature Sensor Product Overview

## 10.5.3 Lake Shore Cryotronics 2.8K Type Ultra Low Temperature Sensor Product Market Performance

- 10.5.4 Lake Shore Cryotronics Business Overview
- 10.5.5 Lake Shore Cryotronics Recent Developments

## 10.6 Amphenol Corporation

- 10.6.1 Amphenol Corporation Basic Information
- 10.6.2 Amphenol Corporation 2.8K Type Ultra Low Temperature Sensor Product Overview

## 10.6.3 Amphenol Corporation 2.8K Type Ultra Low Temperature Sensor Product Market Performance

- 10.6.4 Amphenol Corporation Business Overview
- 10.6.5 Amphenol Corporation Recent Developments

## 10.7 Senstech

- 10.7.1 Senstech Basic Information
- 10.7.2 Senstech 2.8K Type Ultra Low Temperature Sensor Product Overview
- 10.7.3 Senstech 2.8K Type Ultra Low Temperature Sensor Product Market

## Performance

- 10.7.4 Senstech Business Overview
- 10.7.5 Senstech Recent Developments

## 10.8 Scientific Instruments

- 10.8.1 Scientific Instruments Basic Information
- 10.8.2 Scientific Instruments 2.8K Type Ultra Low Temperature Sensor Product Overview

## 10.8.3 Scientific Instruments 2.8K Type Ultra Low Temperature Sensor Product Market Performance

- 10.8.4 Scientific Instruments Business Overview
- 10.8.5 Scientific Instruments Recent Developments
- 10.9 Variohm Holdings Incorporated
  - 10.9.1 Variohm Holdings Incorporated Basic Information
  - 10.9.2 Variohm Holdings Incorporated 2.8K Type Ultra Low Temperature Sensor Product Overview
  - 10.9.3 Variohm Holdings Incorporated 2.8K Type Ultra Low Temperature Sensor Product Market Performance
  - 10.9.4 Variohm Holdings Incorporated Business Overview
  - 10.9.5 Variohm Holdings Incorporated Recent Developments

## **11 2.8K TYPE ULTRA LOW TEMPERATURE SENSOR MARKET FORECAST BY REGION**

- 11.1 Global 2.8K Type Ultra Low Temperature Sensor Market Size Forecast
- 11.2 Global 2.8K Type Ultra Low Temperature Sensor Market Forecast by Region
  - 11.2.1 North America Market Size Forecast by Country
  - 11.2.2 Europe 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Country
  - 11.2.3 Asia Pacific 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Region
  - 11.2.4 South America 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Country
  - 11.2.5 Middle East and Africa Forecasted Sales of 2.8K Type Ultra Low Temperature Sensor by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

- 12.1 Global 2.8K Type Ultra Low Temperature Sensor Market Forecast by Type (2026-2035)
  - 12.1.1 Global Forecasted Sales of 2.8K Type Ultra Low Temperature Sensor by Type (2026-2035)
  - 12.1.2 Global 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Type (2026-2035)
  - 12.1.3 Global Forecasted Price of 2.8K Type Ultra Low Temperature Sensor by Type (2026-2035)
- 12.2 Global 2.8K Type Ultra Low Temperature Sensor Market Forecast by Application (2026-2035)
  - 12.2.1 Global 2.8K Type Ultra Low Temperature Sensor Sales (K Units) Forecast by

Application

12.2.2 Global 2.8K Type Ultra Low Temperature Sensor Market Size (M USD)  
Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Type (M USD)

Table 4. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Application

Table 5. 2.8K Type Ultra Low Temperature Sensor Market Size Comparison by Region (M USD)

Table 6. Global 2.8K Type Ultra Low Temperature Sensor Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Manufacturers (2020-2025)

Table 8. Global 2.8K Type Ultra Low Temperature Sensor Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global 2.8K Type Ultra Low Temperature Sensor Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in 2.8K Type Ultra Low Temperature Sensor as of 2025)

Table 11. Global Market 2.8K Type Ultra Low Temperature Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global 2.8K Type Ultra Low Temperature Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. 2.8K Type Ultra Low Temperature Sensor Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global 2.8K Type Ultra Low Temperature Sensor Sales by Type (K Units)

Table 27. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Type (M USD)

Table 28. Global 2.8K Type Ultra Low Temperature Sensor Sales (K Units) by Type (2020-2025)

Table 29. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Type (2020-2025)

Table 30. Global 2.8K Type Ultra Low Temperature Sensor Market Size (M USD) by Type (2020-2025)

Table 31. Global 2.8K Type Ultra Low Temperature Sensor Market Share by Type (2020-2025)

Table 32. Global 2.8K Type Ultra Low Temperature Sensor Price (USD/Unit) by Type (2020-2025)

Table 33. Global 2.8K Type Ultra Low Temperature Sensor Sales (K Units) by Application

Table 34. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Application

Table 35. Global 2.8K Type Ultra Low Temperature Sensor Sales by Application (2020-2025) & (K Units)

Table 36. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Application (2020-2025)

Table 37. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Application (2020-2025) & (M USD)

Table 38. Global 2.8K Type Ultra Low Temperature Sensor Market Share by Application (2020-2025)

Table 39. Global 2.8K Type Ultra Low Temperature Sensor Sales Growth Rate by Application (2020-2025)

Table 40. Global 2.8K Type Ultra Low Temperature Sensor Sales by Region (2020-2025) & (K Units)

Table 41. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Region (2020-2025)

Table 42. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Region (2020-2025) & (M USD)

Table 43. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Region (2020-2025)

Table 44. North America 2.8K Type Ultra Low Temperature Sensor Sales by Country (2020-2025) & (K Units)

Table 45. North America 2.8K Type Ultra Low Temperature Sensor Market Size by Country (2020-2025) & (M USD)

Table 46. Europe 2.8K Type Ultra Low Temperature Sensor Sales by Country

(2020-2025) & (K Units)

Table 47. Europe 2.8K Type Ultra Low Temperature Sensor Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific 2.8K Type Ultra Low Temperature Sensor Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific 2.8K Type Ultra Low Temperature Sensor Market Size by Region (2020-2025) & (M USD)

Table 50. South America 2.8K Type Ultra Low Temperature Sensor Sales by Country (2020-2025) & (K Units)

Table 51. South America 2.8K Type Ultra Low Temperature Sensor Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Market Size by Region (2020-2025) & (M USD)

Table 54. Global 2.8K Type Ultra Low Temperature Sensor Production (K Units) by Region(2020-2025)

Table 55. Global 2.8K Type Ultra Low Temperature Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global 2.8K Type Ultra Low Temperature Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global 2.8K Type Ultra Low Temperature Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America 2.8K Type Ultra Low Temperature Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe 2.8K Type Ultra Low Temperature Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan 2.8K Type Ultra Low Temperature Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China 2.8K Type Ultra Low Temperature Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. IST Basic Information

Table 63. IST 2.8K Type Ultra Low Temperature Sensor Product Overview

Table 64. IST 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. IST Business Overview

Table 66. IST SWOT Analysis

Table 67. IST Recent Developments

Table 68. Heraeus Basic Information

- Table 69. Heraeus 2.8K Type Ultra Low Temperature Sensor Product Overview
- Table 70. Heraeus 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Heraeus Business Overview
- Table 72. Heraeus SWOT Analysis
- Table 73. Heraeus Recent Developments
- Table 74. SEMITEC Basic Information
- Table 75. SEMITEC 2.8K Type Ultra Low Temperature Sensor Product Overview
- Table 76. SEMITEC 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. SEMITEC Business Overview
- Table 78. SEMITEC SWOT Analysis
- Table 79. SEMITEC Recent Developments
- Table 80. Chino Basic Information
- Table 81. Chino 2.8K Type Ultra Low Temperature Sensor Product Overview
- Table 82. Chino 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Chino Business Overview
- Table 84. Chino Recent Developments
- Table 85. Lake Shore Cryotronics Basic Information
- Table 86. Lake Shore Cryotronics 2.8K Type Ultra Low Temperature Sensor Product Overview
- Table 87. Lake Shore Cryotronics 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Lake Shore Cryotronics Business Overview
- Table 89. Lake Shore Cryotronics Recent Developments
- Table 90. Amphenol Corporation Basic Information
- Table 91. Amphenol Corporation 2.8K Type Ultra Low Temperature Sensor Product Overview
- Table 92. Amphenol Corporation 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Amphenol Corporation Business Overview
- Table 94. Amphenol Corporation Recent Developments
- Table 95. Senstech Basic Information
- Table 96. Senstech 2.8K Type Ultra Low Temperature Sensor Product Overview
- Table 97. Senstech 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Senstech Business Overview
- Table 99. Senstech Recent Developments

Table 100. Scientific Instruments Basic Information

Table 101. Scientific Instruments 2.8K Type Ultra Low Temperature Sensor Product Overview

Table 102. Scientific Instruments 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Scientific Instruments Business Overview

Table 104. Scientific Instruments Recent Developments

Table 105. Variohm Holdings Incorporated Basic Information

Table 106. Variohm Holdings Incorporated 2.8K Type Ultra Low Temperature Sensor Product Overview

Table 107. Variohm Holdings Incorporated 2.8K Type Ultra Low Temperature Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Variohm Holdings Incorporated Business Overview

Table 109. Variohm Holdings Incorporated Recent Developments

Table 110. Global 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 111. Global 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 112. North America 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 113. North America 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 114. Europe 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 115. Europe 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 116. Asia Pacific 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 117. Asia Pacific 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 118. South America 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 119. South America 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 120. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 121. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 122. Global 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Type

(2026-2035) & (K Units)

Table 123. Global 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 124. Global 2.8K Type Ultra Low Temperature Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 125. Global 2.8K Type Ultra Low Temperature Sensor Sales (K Units) Forecast by Application (2026-2035)

Table 126. Global 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of 2.8K Type Ultra Low Temperature Sensor
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global 2.8K Type Ultra Low Temperature Sensor Market Size (M USD), 2025-2035
- Figure 5. Global 2.8K Type Ultra Low Temperature Sensor Market Size (M USD) (2020-2035)
- Figure 6. Global 2.8K Type Ultra Low Temperature Sensor Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. 2.8K Type Ultra Low Temperature Sensor Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global 2.8K Type Ultra Low Temperature Sensor Product Life Cycle
- Figure 13. 2.8K Type Ultra Low Temperature Sensor Sales Share by Manufacturers in 2025
- Figure 14. Global 2.8K Type Ultra Low Temperature Sensor Revenue Share by Manufacturers in 2025
- Figure 15. 2.8K Type Ultra Low Temperature Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market 2.8K Type Ultra Low Temperature Sensor Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by 2.8K Type Ultra Low Temperature Sensor Revenue in 2025
- Figure 18. Industry Chain Map of 2.8K Type Ultra Low Temperature Sensor
- Figure 19. Global 2.8K Type Ultra Low Temperature Sensor Market PEST Analysis
- Figure 20. Global 2.8K Type Ultra Low Temperature Sensor Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global 2.8K Type Ultra Low Temperature Sensor Market Share by Type

Figure 27. Sales Market Share of 2.8K Type Ultra Low Temperature Sensor by Type (2020-2025)

Figure 28. Sales Market Share of 2.8K Type Ultra Low Temperature Sensor by Type in 2025

Figure 29. Market Share of 2.8K Type Ultra Low Temperature Sensor by Type (2020-2025)

Figure 30. Market Share of 2.8K Type Ultra Low Temperature Sensor by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global 2.8K Type Ultra Low Temperature Sensor Market Share by Application

Figure 33. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Application (2020-2025)

Figure 34. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Application in 2025

Figure 35. Global 2.8K Type Ultra Low Temperature Sensor Market Share by Application (2020-2025)

Figure 36. Global 2.8K Type Ultra Low Temperature Sensor Market Share by Application in 2025

Figure 37. Global 2.8K Type Ultra Low Temperature Sensor Sales Growth Rate by Application (2020-2025)

Figure 38. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Region (2020-2025)

Figure 39. Global 2.8K Type Ultra Low Temperature Sensor Market Size by Region (2020-2025)

Figure 40. North America 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Country in 2024

Figure 43. North America 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America 2.8K Type Ultra Low Temperature Sensor Market Size by Country in 2024

Figure 45. U.S. 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada 2.8K Type Ultra Low Temperature Sensor Sales (K Units) and

Growth Rate (2020-2025)

Figure 48. Canada 2.8K Type Ultra Low Temperature Sensor Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico 2.8K Type Ultra Low Temperature Sensor Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico 2.8K Type Ultra Low Temperature Sensor Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Country in 2024

Figure 53. Europe 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe 2.8K Type Ultra Low Temperature Sensor Market Size by Country in 2024

Figure 55. Germany 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific 2.8K Type Ultra Low Temperature Sensor Market Size by Region in 2024

Figure 68. China 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (K Units)

Figure 79. South America 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Country in 2024

Figure 80. South America 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (M USD)

Figure 81. South America 2.8K Type Ultra Low Temperature Sensor Market Size by Country in 2024

Figure 82. Brazil 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate

(2020-2025) & (K Units)

Figure 87. Columbia 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa 2.8K Type Ultra Low Temperature Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa 2.8K Type Ultra Low Temperature Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa 2.8K Type Ultra Low Temperature Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global 2.8K Type Ultra Low Temperature Sensor Production Market Share by Region (2020-2025)

Figure 103. North America 2.8K Type Ultra Low Temperature Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe 2.8K Type Ultra Low Temperature Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan 2.8K Type Ultra Low Temperature Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China 2.8K Type Ultra Low Temperature Sensor Production (K Units)  
Growth Rate (2020-2025)

Figure 107. Global 2.8K Type Ultra Low Temperature Sensor Sales Forecast by Volume  
(2020-2035) & (K Units)

Figure 108. Global 2.8K Type Ultra Low Temperature Sensor Market Size Forecast by  
Value (2020-2035) & (M USD)

Figure 109. Global 2.8K Type Ultra Low Temperature Sensor Sales Market Share  
Forecast by Type (2026-2035)

Figure 110. Global 2.8K Type Ultra Low Temperature Sensor Market Share Forecast by  
Type (2026-2035)

Figure 111. Global 2.8K Type Ultra Low Temperature Sensor Sales Forecast by  
Application (2026-2035)

Figure 112. Global 2.8K Type Ultra Low Temperature Sensor Market Share Forecast by  
Application (2026-2035)

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