

# **Global Cryogenic Temperature Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031**

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## **Abstracts**

According to our (Global Info Research) latest study, the global Cryogenic Temperature Sensors market size was valued at US\$ 212 million in 2024 and is forecast to a readjusted size of USD 348 million by 2031 with a CAGR of 7.4% during review period.

Cryogenic temperature sensors are devices used to measure extremely low temperatures, typically below -150 degrees Celsius. These sensors are designed to operate in extreme cold environments and provide accurate temperature readings in cryogenic applications.

The core manufacturers of global cryogenic temperature sensors include Yageo Nexensos, Omega Engineering, ABB, CHINO, Emerson and Omron, etc. The top three manufacturers account for approximately 38% of the global share. The United States is the world's largest cryogenic temperature sensors market, accounting for nearly 34% of the market share.

In terms of product type, Resistance Temperature Detectors (RTDs) occupy a major position, accounting for 32% share. At the same time, in terms of applications, Industrial is the largest application field, accounting for 36%.

This report is a detailed and comprehensive analysis for global Cryogenic Temperature Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Cryogenic Temperature Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Cryogenic Temperature Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Cryogenic Temperature Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Cryogenic Temperature Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Cryogenic Temperature Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Cryogenic Temperature Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Yageo Nexensos, Omega Engineering, ABB, CHINO, Emerson, Omron, Okazaki Manufacturing, Scientific Instruments, Minco, Senmatic, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

Cryogenic Temperature Sensors market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Resistance Temperature Detectors (RTDs)

Negative Temperature Coefficient (NTC)

Semiconductor-based Sensors

Thermocouples

Others

### Market segment by Application

Aerospace

Research

Industrial

Others

### Major players covered

Yageo Nexensos

Omega Engineering

ABB

CHINO

Emerson

Omron

Okazaki Manufacturing

Scientific Instruments

Minco

Senmatic

Amphenol Corporation

Lake Shore Cryotronics

Yamari Industries

IST

Hayashi Denko

Netsushin

Senstech

Variohm Eurosensor

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Cryogenic Temperature Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cryogenic Temperature Sensors, with price, sales quantity, revenue, and global market share of Cryogenic Temperature Sensors from 2020 to 2025.

Chapter 3, the Cryogenic Temperature Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cryogenic Temperature Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Cryogenic Temperature Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Cryogenic Temperature Sensors.

Chapter 14 and 15, to describe Cryogenic Temperature Sensors sales channel,

distributors, customers, research findings and conclusion.

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