

Global Thermocouple Probe 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 Thermocouple Probe market size was valued at US\$ 919 million in 2024 and is forecast to a readjusted size of USD 1262 million by 2031 with a CAGR of 4.7% during review period.

Thermocouple probes operate on the principle that an electromagnetic force (emf) is generated when heat is applied to the junction of two dissimilar metals (sending junctions). At the other end of the wires, usually as part of the input instrument, is another junction called the reference junction. The temperature is inferred based on the emf difference between the sensing and the reference junction, which is at a known temperature. Thermocouple probe junction types include exposed junction, ungrounded junction, and grounded junction. Thermocouples offer the greatest temperature range and are more cost effective but are the least sensitive and accurate of the sensor types. A thermocouple probe is suitable for use from -200 to 2000 degrees C.

The petrochemical industry, or petrochemicals for short, generally refers to the chemical industry that uses oil and natural gas as its raw materials. The sudden global outbreak of New Crown Pneumonia in the early 2020's delivered a huge blow to the petrochemical industry, with the International Energy Agency predicting at the beginning of the 2020's that global demand for oil in 2020 would fall by 8.1 million barrels per day (bpd). This is the first annual decline in global oil consumption since 2009 and the financial crisis. global refined oil product consumption fell by nearly 30% in the first quarter of 2020, and global oil supply in the second quarter showed the largest single-quarter supply surplus ever. As a result, the market size of petrochemicals in 2020 declined to a certain extent, with the global petrochemicals market size of \$422 billion in 2020, a year-on-year decline of 4.3%. 2022 In the second half of the year, due to the fall in crude oil prices

and shrinking downstream demand, the overall profit of the petrochemicals industry has been significantly narrowed, and a number of enterprises have also incurred losses. The stability of the global trade supply chain has been tested to a certain extent after the New Crown Pneumonia epidemic, and many countries have begun to shift important resources, such as petrochemicals, to local areas after realizing the weak ability of the globalized trade supply chain to resist huge risks.

This report is a detailed and comprehensive analysis for global Thermocouple Probe 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 Thermocouple Probe market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Thermocouple Probe 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 Thermocouple Probe 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 Thermocouple Probe 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 Thermocouple Probe
- 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 Thermocouple Probe 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 Antylia Scientific, ThermoWorks, Omega Engineering, Thermometrics Corporation, McMaster-Carr, Emerson Electric, SKF, Honeywell, Fluke Corporation, Watlow, etc.

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

Market Segmentation

Thermocouple Probe 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

Grounded

Ungrounded

Exposed

Market segment by Application

Petroleum and Petrochemicals

Power Generation

Aerospace

Semiconductor

High Pressure Furnace

Others

Major players covered

Antylia Scientific

ThermoWorks

Omega Engineering

Thermometrics Corporation

McMaster-Carr

Emerson Electric

SKF

Honeywell

Fluke Corporation

Watlow

Electronic Temperature Instruments

Evolution Sensors

Thermal Detection

MSC Industrial Direct

Chemglass Life Sciences

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 Thermocouple Probe product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Thermocouple Probe 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 Thermocouple Probe 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 Thermocouple Probe.

Chapter 14 and 15, to describe Thermocouple Probe sales channel, distributors, customers, research findings and conclusion.

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