

Global Industrial Integrated Temperature Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Industrial Integrated Temperature Sensor market size is expected to reach \$ 732 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of Industrial Integrated Temperature Sensor reached approximately 12 million units, with an average market price of about USD 45 per unit, an annual production capacity of roughly 15 million units, and an industry-average gross margin of approximately 28%.

The Industrial integrated temperature sensor is an integrated industrial temperature measuring instrument, belonging to the category of instrumentation equipment. It consists of temperature sensing elements such as thermocouples and resistance temperature detectors (RTDs) combined with a temperature transmitter module, and is mainly used in the field of industrial temperature monitoring. It adopts an all-stainless steel structure and supports explosion-proof and fire-resistant designs. The core module integrates a reference unit, signal conversion circuit, and multiple protection functions.

Upstream includes thermocouple wires, platinum RTD elements, stainless-steel protection tubes, flanges and compression fittings, terminal heads, electronic components, isolation/transmitter chips, cables, and explosion-proof accessories. Midstream involves temperature-probe manufacturing, transmitter-module design and assembly, calibration, pressure/explosion-proof certification, and final system integration. Downstream demand is concentrated in petrochemical, oil and gas, power generation, metallurgy, chemicals, pharmaceuticals, food and beverage, HVAC, boilers, reactors, heat exchangers, storage tanks, pipelines, and broader process-equipment temperature monitoring and control. Endress+Hauser publicly states that its modular

Industrial thermometers are used in heat exchangers, dryers, reactors, and similar applications, while hazardous-area models target safety-critical sectors such as chemicals, oil and gas, and energy.

This report studies the global Industrial Integrated Temperature Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial Integrated Temperature Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Industrial Integrated Temperature Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Industrial Integrated Temperature Sensor total production and demand, 2021-2032, (K Units)

Global Industrial Integrated Temperature Sensor total production value, 2021-2032, (USD Million)

Global Industrial Integrated Temperature Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Industrial Integrated Temperature Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Industrial Integrated Temperature Sensor domestic production, consumption, key domestic manufacturers and share

Global Industrial Integrated Temperature Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Industrial Integrated Temperature Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Industrial Integrated Temperature Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Industrial Integrated Temperature 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 Endress+Hauser, Emerson, WIKA, Yokogawa, ABB, Siemens, Honeywell, Azbil, JUMO, OMEGA, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Industrial Integrated Temperature 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 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Industrial Integrated Temperature Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial Integrated Temperature Sensor Market, Segmentation by Type:

DC Millivolt Temperature Sensor

Thermocouple Temperature Sensor

Resistor Temperature Sensor

Global Industrial Integrated Temperature Sensor Market, Segmentation by Explosion-proof Rating:

Standard Type

Explosion-proof Type

Global Industrial Integrated Temperature Sensor Market, Segmentation by Application:

Oil & Gas

Power

Chemical

Pharmaceutical

Others

Companies Profiled:

Endress+Hauser

Emerson

WIKA

Yokogawa

ABB

Siemens

Honeywell

Azbil

JUMO

OMEGA

ifm

Pyromation

REOTEMP

Conax Technologies

Durex Industries

Minco

Thermo Electric Company

Chongqing Chuanyi

Micro Sensor

Huaxuan Sensing Technology

SenTec

Key Questions Answered:

1. How big is the global Industrial Integrated Temperature Sensor market?
2. What is the demand of the global Industrial Integrated Temperature Sensor market?

3. What is the year over year growth of the global Industrial Integrated Temperature Sensor market?
4. What is the production and production value of the global Industrial Integrated Temperature Sensor market?
5. Who are the key producers in the global Industrial Integrated Temperature Sensor market?
6. What are the growth factors driving the market demand?

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