

Signal Conditioning Modules Market with COVID-19 impact by Form Factor (Din Rail-Mounted Modules, Standalone Modules), Input Type (Temperature, Process, Frequency, LVDT/RVDT), Application, End-User Industry, and Geography - Global Forecast to 2025

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Abstracts

The global signal conditioning modules market size is estimated at USD 1.0 billion in 2020 and is projected to reach USD 1.2 billion by 2025; it is expected to grow at a CAGR of 3.4% from 2020 to 2025. Factors such as the growing investments in infrastructure development, surging requirement for industrial automation processes, and rising need to comply with government policies and regulations fuel the growth of the signal conditioning modules market. However, supply chain disruptions owing to the lockdown in leading economies due to the COVID-19 pandemic and stringent compliances/certifications across various regions are some of the factors that would limit the growth of the global signal conditioning modules market during the forecast period.

COVID-19 has affected the production capacities and financial condition of signal conditioning modules providers. The pandemic has resulted in a widespread health crisis, which is adversely affecting the financial markets and economies of countries and end-user industries. This is expected to lead to an economic downturn and negatively affect the demand for signal conditioning modules.

“The market for DIN rail-mounted modules to witness high-growth potential during the forecast period”

The DIN rail concept is widely used in the automation industry and can save installation time, as the signal conditioning modules can be mounted onto the metal rail. Module racks can be quickly assembled in linear configurations, which provide high flexibility and density, and save design time. These modules provide signal conversion and isolation for a wide range of process inputs, such as thermocouples, RTDs, frequency, current, resistance, and potentiometers, among others.

“The market for process input signal conditioning modules to grow at highest CAGR during the forecast period”

Process input signal conditioning modules are the most versatile signal conditioning modules. These modules accept different combinations of signals, including DC, thermocouples, potentiometers, RTDs, load cell, strain gauge, linear resistance signals, process transducers, and DC voltage, allowing a connection with maximum sensors. The increasing adoption of process input signal conditioners to provide reliable and safe interfacing in data acquisition, industrial test & measurement, and process control applications across various industries is driving the market for process input signal conditioning modules globally.

“The market for process control application to grow at highest CAGR during the forecast period “

The increasing focus of manufacturing industries on smart manufacturing and automation technologies to boost the production capacity and plant efficiency. Both process and discrete industries have increased their emphasis on optimum utilization of resources. They are implementing automation solutions to reduce operational costs and increase plant efficiency. The increasing implementation of industrial automation solutions is likely to drive the signal conditioning modules market for process control.

“APAC to be the largest market for signal conditioning modules during the forecast period”

The implementation of instrumentation and industrial automation is increasing significantly in APAC due to the rising necessity for increased production rates, high-quality products, and safe industrial operations. High investments by foreign players in the process industries and government regulations that are encouraging industrial automation are the key factors boosting the demand for signal conditioners in the region. However, the implementation of lockdowns in several countries to contain the spread of COVID-19 has significantly affected the operations of end-user industries

such as oil & gas, metal & mining, and aerospace & defense, due to which the market for signal conditioning modules is expected slowdown in 2020 in the APAC.

Break-up of the profiles of primary participants:

By Company Type – Tier 1 – 50%, Tier 2 – 20%, and Tier 3 – 30%

By Designation – C-level Executives – 24%, Directors – 55%, and Managers – 21%

By Region – North America - 30%, Europe – 40%, APAC – 20%, and RoW – 10%

Key players in the market include Rockwell Automation, Inc. (US), Siemens (Germany), Phoenix Contact GmbH & Co. KG (Germany), Schneider Electric (France), Pepperl+Fuchs (Germany), Yokogawa Electric Corporation (Japan), TE Connectivity Ltd. (US), Advantech Co., Ltd. (Taiwan), ABB (Switzerland), and AMETEK, Inc. (US), Weidmüller Interface GmbH & Co. Kg (Germany), Moore Industries (US), PR electronics (Denmark), Acromag, Inc. (US), Dwyer Instruments, Inc. (US), Keysight Technologies, Inc. (US), ICP DAS CO., LTD. (Taiwan), Omega Engineering Inc. (US), Hans Turck GmbH & Co. KG (Germany), Vega Grieshaber Kg (Germany), Curtiss-Wright Corporation (US), Dataforth Corporation (US), HBM (Germany), MTL Group – EATON (UK), and Red Lion Controls Inc. (US).

The global signal conditioning modules market is segmented on the basis of form factor, input type, application, end-use industry, and geography. The market based on form factor is segmented into DIN rail-/rack-mounted modules, and standalone/modular modules. Based on the input type, the signal conditioning modules market has been split into temperature input, process input, frequency input, and LVDT/RVDT. Based on the application, the market is segmented into data acquisition, process control, and others. End-user industries that are included in the study of the market include oil & gas, energy & power, chemical processing, food & beverage, metal & mining, paper & pulp, water & wastewater, aerospace & defense, and others. The signal conditioning modules market is segmented into four regions—North America, Europe, Asia Pacific (APAC), and the Rest of the World (RoW).

Reasons to buy the report:

Illustrative segmentation, analysis, and forecast for markets based on form factor, input type, application, end-user industry, and region have been conducted to give an overall view of the signal conditioning modules market.

The value chain analysis has been performed to provide an in-depth insight into the signal conditioning modules industry.

Major drivers, restraints, opportunities, and challenges pertaining to the signal conditioning modules market have been detailed in this report.

Detailed information regarding the COVID-19 impact on the signal conditioning modules market has been provided in the report.

The report includes a detailed competitive landscape along with key players, in-depth analysis, and revenue of key players.

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