

Marine Sensors Market by Ship Type (Commercial, Defense, UUV), Application (Ballast and Bilge, Fuel and Propulsion, Navigation and Positioning), Enduse (OEM, Aftermarket), Connectivity, Sensor type and Region - Global Forecast to 2028

<https://marketpublishers.com/r/MC656027F0ECEN.html>

Date: October 2023

Pages: 241

Price: US\$ 4,950.00 (Single User License)

ID: MC656027F0ECEN

Abstracts

The Marine sensor market is projected to grow from USD 1.4 million in 2023 to USD 1.9 million by 2028, at a CAGR of 6.5% from 2023 to 2028. Increasing need for maritime transportation and navies focusing on technologically advanced marine vessels drive the marine sensors market. However, management of massive data generated by marine sensors and maintenance Process and Calibration of sensors are limiting the overall growth of the market.

“Commercial Tankers: The largest share in ship type segment in the marine sensors market in 2023.”

The tankers sub segment of commercial ship type segment is projected to have the largest share in 2023. Tankers play a crucial role in the global economy by facilitating the movement of essential resources and commodities across the world's oceans and waterways. They are equipped with advanced navigation and safety systems to ensure the safe transport of their cargoes and to protect the marine environment.

In July 2023 the U.S. Maritime Administration (MARAD) confirmed the enrollment of nine ships in the Tanker Security Program (TSP). This program was established to meet national defense and security needs by creating a fleet of commercially viable, privately-owned product tank vessels. Funding for TSP was allocated by Congress through the Fiscal Year 2022 Consolidated Appropriations Act, as mandated by the Fiscal Year 2021 National Defense Authorization Act (NDAA) with minor adjustments in the FY22

NDA.

“Fuel and Propulsion: The second largest share in application segment in the marine sensors market in 2023.”

The Fuel and propulsion sub segment of application type segment is projected to have the second largest share in 2023. Marine sensors are essential components in fuel and propulsion systems for ships and boats. These sensors serve critical functions to enhance operational efficiency and safety. They monitor fuel levels and flow, enabling operators to manage consumption effectively and detect any anomalies. Engine temperature and pressure sensors ensure safe engine operation by preventing overheating and detecting issues like low oil pressure.

Marine sensors also play a pivotal role in emissions control, helping vessels comply with environmental regulations by monitoring exhaust emissions. They contribute to propulsion system health by measuring RPM and detecting abnormal vibrations, facilitating optimal engine performance. Additionally, GPS sensors aid navigation and safety by providing real-time location data for route planning and collision avoidance. These sensors are integrated into alarm and safety systems, ensuring early warning and protection for both crew and vessel. Overall, marine sensors are indispensable tools for improving efficiency, compliance, and safety in the maritime industry.

“Pressure Sensors: The second largest share in sensor type segment in the marine sensors market in 2023.”

The pressure sensor sub segment of sensor type segment is projected to have the second largest share in 2023. In the maritime operations, diverse control systems and marine air compressors, both high and low-pressure variants, alongside submerged firewater pipe level equipment, exhibit distinct prerequisites for pressure and level assessment. The robust and precise measurements by individual pressure sensors provide vital information and output for optimizing system functionality, resulting in enhanced efficiency, diminished energy consumption, and precise system positioning. Furthermore, the utilization of pressure measurement for equipment condition monitoring and early detection of issues also establishes a foundational dataset supporting the reliability and failure rate analysis of ship systems.

For example, pressure sensors are commonly used to measure water depth, enabling vessels to determine their position relative to the seabed or water surface and in remotely operated vehicles (ROVs) and autonomous underwater vehicles (AUVs) to

control their depth and maintain buoyancy.

“The Asia-Pacific region is estimated to have the largest share in the marine sensors market in 2023.”

Asia-Pacific is estimated to account for the largest share in marine sensors market in 2023. The Asia-pacific region for this study comprises China, India, Japan, Australia, South Korea, and the Rest of Asia Pacific. The marine sensors market in Asia Pacific has experienced a remarkable surge in recent years. The growth of the region is due to actively embracing developments and the presence of major ship building companies which is expected to revolutionize marine sensors in upcoming years. Countries like Japan and the China are investing in the development of dedicated sensors for dedicated systems.

The break-up of the profiles of primary participants in the marine sensors market is as follows:

By Company Type: Tier 1 - 35%; Tier 2 - 45%; and Tier 3 - 20%

By Designation: C-Level Executives - 35%; Directors - 25%; and Others - 40%

By Region: North America – 20%, Europe – 20%, Asia Pacific – 40%, Rest of the World – 20%.

Major Players in the marine sensors market are Honeywell International Inc. (US), Eaton Corporation (Ireland), TE Connectivity (Switzerland), Garmin Ltd. (US), and Curtiss Wright (US) among others.

Research Coverage

The market study covers the marine sensors market across various segments and subsegments. It aims at estimating the size and growth potential of this market across different segments based on sensor type (Pressure Sensors, Temperature Sensors, Force Sensors, Torque Sensors, Speed Sensors, Position and Displacement Sensors, Level Sensors, Proximity Sensors, Flow Sensors, Optical Sensors, Motion Sensors, Radar Sensors, Smoke Detection Sensors, GPS Sensors, Acoustic Sensors, Current Sensors and Other Sensors), ship type (Commercial, Defense and Unmanned Underwater Vehicle), connectivity (Wired and Wireless), enduse (OEM and

Aftermarket), by application (Ballast and bilge system, Fuel and Propulsion System, Refrigeration System, HVAC System, Firefighting System, Navigation and Positioning System, Other systems) and Region. This study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to their product and business offerings, recent developments undertaken by them, and key market strategies adopted by them.

Key benefits of buying this report:

This report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall marine sensors market and its subsegments. The report covers the entire ecosystem of the ship sensors industry and will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on marine sensors market offered by the top players in the market.

Market Drivers: Increasing demand for maritime transportation, increasing demand for ROV and AUV for advanced marine research, navies focusing on technologically advanced vessels are the driving factors for the marine sensors market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the marine sensors market

Market Development: Comprehensive information about lucrative markets – the report analyses the marine sensors market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the marine sensors market

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players in the marine sensors market

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