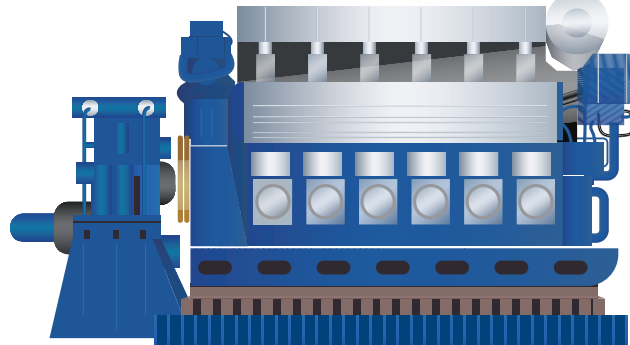
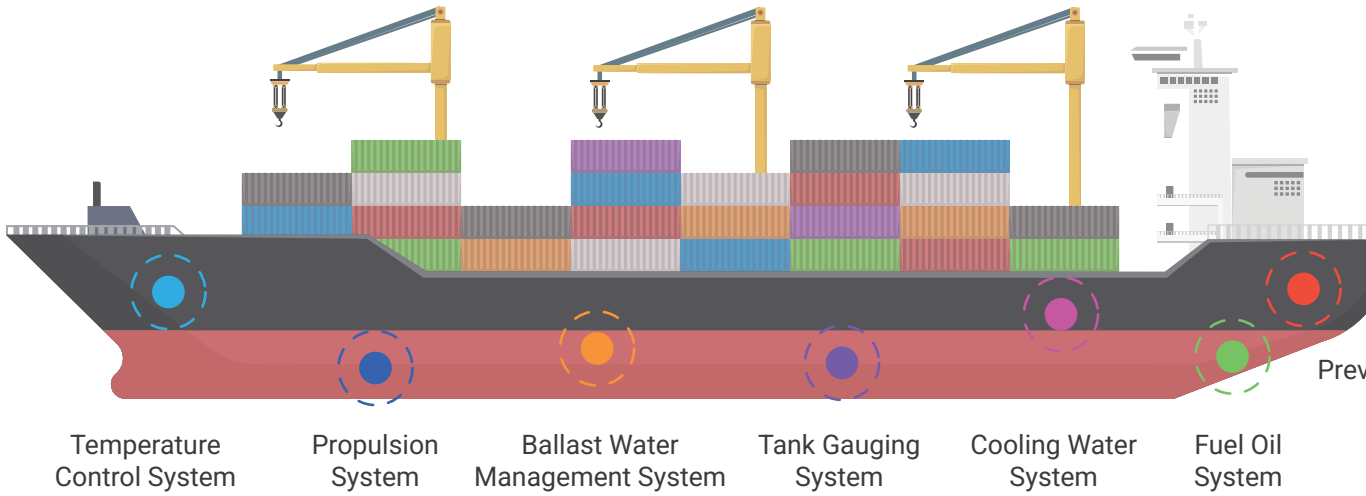


Image		Features	Range	Accuracy	Output	Power Supply	Operating Temp.	Vibration Resistance	Certifications & Others
Pressure Transmitter		Multiple threads/connections, all-welded, Ti/Ta/Hastelloy options	-100kPa~100MPa (Overpressure: 2×FS or 100MPa min.)	±0.5%FS ±0.1%FS optional	4mA~20mA DC 0.5V~2.5V/4.5V DC 0/1V~5/10V DC	11V~28V DC 3.3V/5V DC	-30℃~80℃	20g, 20Hz~5000Hz	CCS, ABS, DNV, ATEX, PCEC, EAC, CE, RoHS, ACS, IP65
		Local display, digital output	-100kPa~100MPa	±0.25%FS	4mA~20mA DC 0/1V~5/10V DC RS485/Modbus	8V~28V DC	-30℃~80℃	10g, 20Hz~2000Hz	CCS, DNV, PCEC, CNEX, CQFB, EAC, CE, IP65
		8-class society certs, high stability/overpressure, corrosion/heat-resistant, anti-hydrogen embrittlement	Differential: 0~10MPa Pressure: 0~100MPa	±0.075%FS ±0.05%FS	4mA~20mA DC+HART Bluetooth Modbus-RS485 1V~5V (low power)	Intrinsically safe HART: 18.3V~30V DC Non-intrinsically safe HART: 18.3V~44V DC	-50℃~85℃ -40℃~70℃ (LCD)	5g, 10Hz~2000Hz	CCS, ABS, BV, DNV, KR, LR, NK, RS, ATEX, IECEx, CSA, NEPSI, PCEC, EAC, PAC, CE, RoHS, IP67
Pressure Switch		LED display, dual PNP output	0.1~60MPa Overpressure: 2×FS or 100MPa (min.)	±0.5%FS	Switch + Voltage (2×PNP + 0V~5V/10V DC) Switch + Current (2×PNP + 0mA/4~20mA)	12V~30V DC	-20℃~80℃	10g, 10Hz~500Hz	IP65
Level Transmitter		Submersible Level Transmitter High stability, digital output, temperature-compensated, all-welded, full-titanium option	3.5m~200m H2O	±0.25%FS ±0.1%FS ±0.075%FS ±0.05%FS	4mA~20mA DC RS485/HART	RS485: 10V~28V DC HART: 12V~30V DC	-20℃~80℃	20g, 20Hz~5000Hz	CCS, DNV, ABS, ATEX, IECEx, CSA, PCEC, EAC, CE, RoHS
		Radar Level Transmitter Non-contact, wear-free, contamination-free, high-immunity, lightweight, ultra-low pulse emission radar measurement	0m~150m	±10mm ±2mm	4mA~20mA DC/HART RS485/Modbus	12V~24V DC 220V AC	-40℃~250℃	10m/s², (10~150)Hz	IP67
		Ultrasonic Level Meter LCD display, solid/liquid measurement	0m~50m	±1.0%FS ±0.5%FS	4mA~20mA DC	220V AC 24V DC 120mA 12V DC 9V DC Battery-powered	-20℃~80℃ -20℃~60℃ (LCD)	10Hz~500Hz	IP65
		Magnetostrictive Level Transmitter Magnetostrictive level measurement	0.05m~20m	±0.05%FS	0/4mA~20mA DC 0V~5/10V DC 4mA~20mA DC+HART 4mA~20mA DC+RS485	12V~24V DC	-40℃~85℃	25kg, 10Hz~2000Hz	IP65 (IP67 or IP68 available upon request)
Level Switch		Rod Float Level Switch (Explosion-proof)	0~3m	/	SPST/SPDT Contact rating: 50W	/	-20~120℃	/	IP65
		Cable Float Level Switch (Explosion-proof)*	0~20m	/	N.O/N.C or SPDT microswitch Contact rating: 10A/250V AC	/	-10~80℃	/	IP68
Temperature Transmitter		Integrated Temperature Transmitter Local display, diagnostic functions, HART optional, high accuracy/isolation	-200℃~1200℃	±1%FS ±0.5%FS ±0.25%FS ±0.1%FS	4mA~20mA DC 1V~5V DC 4mA~20mA DC+HART	10V~30V DC 15V~30V DC (with display)	-200℃~1200℃	0.7g, 5Hz~100Hz	CCS, ABS, DNV, CNEX, CE
		Integrated Temperature Transmitter High frequency response, vibration-resistant, compact design	-20℃~200℃	±1%FS ±0.5%FS ±0.25%FS	4mA~20mA DC	12V~30V DC	-20℃~200℃	8g, 10Hz~2000Hz	CCS, CE, ROHS
		MI RTD Temperature Sensor Modular design; compatible with thermowell and temperature transmitter module	-200℃~500℃	Class AA / A / B higher precision available (e.g., 1/10B: ±(0.03+0.0005 t)℃)	Ω	24V DC	-200℃~500℃	10g, 10Hz~1000Hz	CE, ROHS
		MI Thermocouple Temperature Sensor Modular design; compatible with thermowell and temperature transmitter module	-40℃~1600℃	Class 1/2	mV	24V DC	-40℃~1600℃	10g, 10Hz~1000Hz	CE, ROHS
Flowmeter		Electromagnetic Flowmeter High accuracy, stable; self-diagnostics, empty pipe detection, range limit alarms	DN3~DN2400	±0.5%FS ±0.2%FS	4mA~20mA DC+HART 1~5V RS485/RS232 Modbus Profibus-DP/PA Frequency, Pulse, Relay	100V~240V AC 24V/12V DC Battery/solar powered	-20℃~60℃	0.7g, 5Hz~100Hz	CCS, ATEX, EAC, PCEC, CNEX, SIL, CE, IIP65/IP67/IP68
		Coriolis Flowmeter Accuracy up to 0.15 class, high repeatability/stability; suitable for general, high-viscosity, and non-Newtonian unidirectional fluids	DN4~DN300	±0.5%FS ±0.2%FS ±0.15%FS	4mA~20mA DC RS485 Pulse	24V DC 12V AC	-196℃~85℃	0.7g, 5Hz~100Hz	CCS, ABS, DNV, EAC, CNEX, SIL, CE, IP65/IP67
		Vortex Flowmeter sGeneral-purpose design, compact structure; suitable for liquid and gas flow measurement across various pipe diameters	DN15~DN1000	±1%FS ±1.5%FS	4mA~20mA DC 1V~5V HART RS485, Pulse	24V DC 3.6V Lithium battery (1.2Ah, approx. 2-year lifespan)	-40℃~55℃	/	PCEC, CE, EAC, SIL, IP67

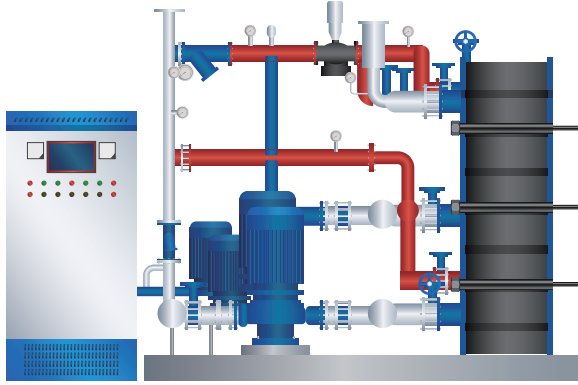
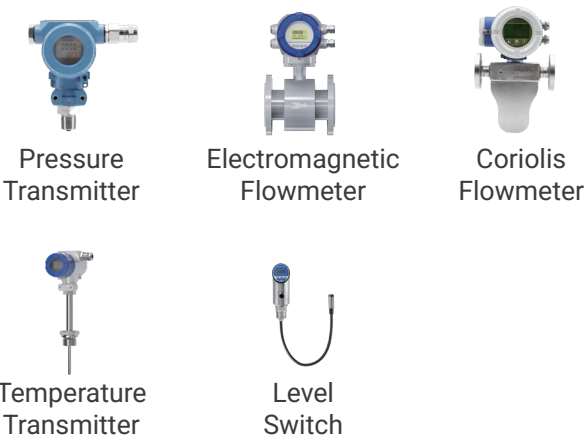
Shipbuilding Monitoring Solution

Vessels are equipped with an extensive control system, including fuel oi, cooling water, tank gauging system, ballast water management, pollution prevention, temperature control, and propulsion systems. Each pressure sensor (transmitter) within these systems has specific requirements for pressure and level measurements.

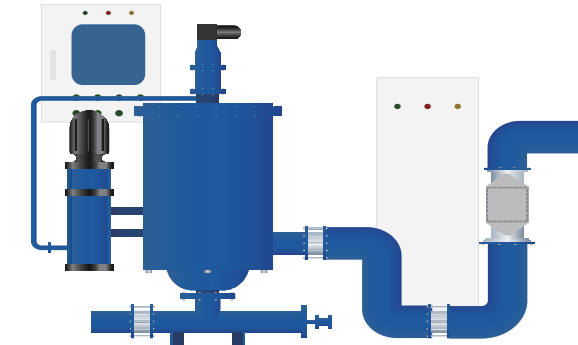
The robustness and precise measurement of each pressure sensor (transmitter) are crucial for providing essential data and outputs, contributing to the application, efficiency improvement, reduced energy consumption, and accurate positioning of the system. Additionally, pressure measurement plays a fundamental role in equipment status detection and warning, supporting the reliability and fault tolerance of marine systems by providing essential data.



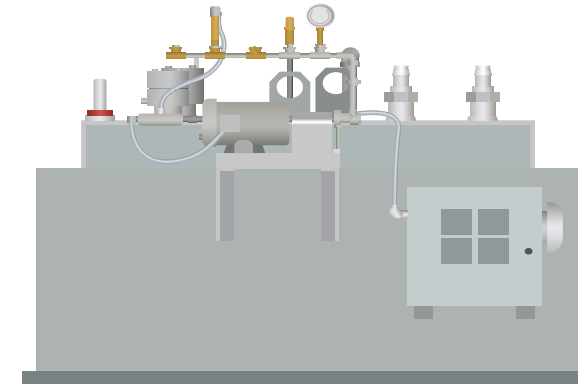
Propulsion System



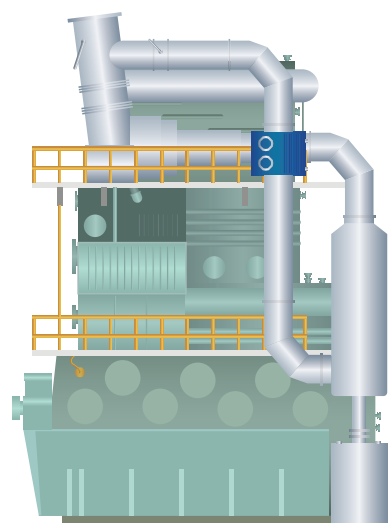
Temperature Control System



Ballast Water Management System



Tank Gauging System



Pollution Prevention System



Pressure Transmitter



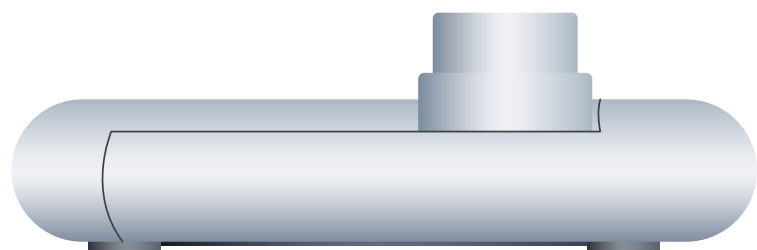
Temperature Transmitter



Smart Pressure Transmitter



Electromagnetic Flowmeter



Fuel Oil System



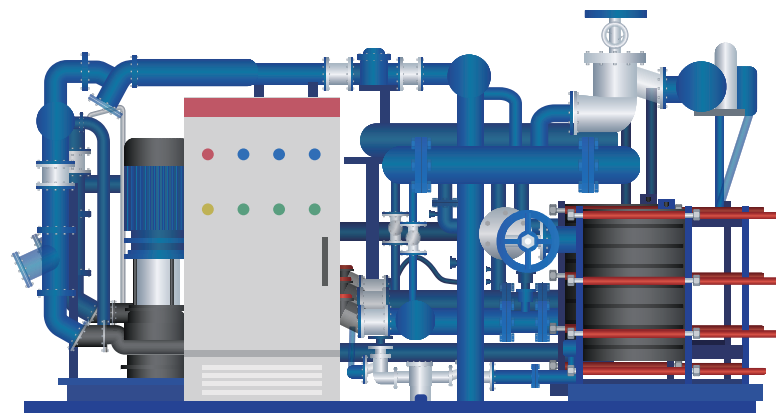
Level Transmitter



Pressure Transmitter



Float Level Switch



Cooling Water System



Pressure Transmitter



Temperature Transmitter



Electromagnetic Flowmeter

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MICROSENSOR

THE APPLICATION OF MEASURING INSTRUMENTS IN THE SHIPBUILDING INDUSTRY



Empowering Sustainable Development with Measurement and Control Solutions

Company Profile

Since its inception in 1993, Micro Sensor Co., Ltd. (Micro Sensor) has been a global manufacturer and service provider of industrial measurement and control instruments. The company specializes in customized solutions for pressure, level, temperature, and flow measurement, serving a wide range of industries including oil & gas, renewable energy, industrial gases, water & wastewater, marine & shipbuilding, HVAC, hydraulics & pneumatics, mechanical manufacturing & automation, food & beverage, and pulp & paper. Micro Sensor has a global team of over 800 employees and operates four industrial parks in Baoji, Xi'an, and Shanghai, China. It also has a European subsidiary, Micro Sensor GmbH, in Essen, Germany.



Smart Manufacturing

Automated assembly, inspection, and packaging with full-process monitoring of key operations; Unified MES/ERP systems for end-to-end connectivity of production planning, materials, and quality; Enhanced process performance and predictive maintenance powered by Big Data and AI.



CNAS-Certified Laboratories

Accredited laboratories in Shanghai, Xi'an, and Baoji, covering over 500m²; Capability for high-level pressure/temperature calibration, EMC, environmental, and reliability testing; Self-developed systems for automated acquisition and analysis of 15 types of digital/analog signals.



Quality Management System

Certified for ISO 9001, Environmental, Occupational Health & Safety, and Measurement Management Systems; Specialized ATEX and IECEx Quality Management System certifications.

Manufacturing Base



Baoji Jiangtan

36,000 m²

Floor Area

27,629 m²

Production Area

2,000,000 units

Annual Capacity