

Machinery Equipment Compatibility List

SYSTEMS	SIGNAL TYPES (INDICATIVE)	MAKERS & MODELS (INDICATIVE)	
NAVIGATION <ul style="list-style-type: none"> • Speedlog • GPS • Anemometer • Autopilot • Gyrocompass • Magnetic Compass • Echosounder • AIS Radar • ECDIS • Conning Display • Rudder Angle • Drafts 	<ul style="list-style-type: none"> • RS422/RS485 NMEA serial protocol • Synchro type • Analog type <ul style="list-style-type: none"> - 0/4...20mA - ±10V - Pneumatic • Other custom serial protocols 	<ul style="list-style-type: none"> • JRC • Furuno • Transas • Kongsberg • Raytheon • Consilium • Garmin • Raymarine • Simrad • Japan Radio • B&G • GEM Electronics • Sperry Marine • Marine Technologies • Veinland 	<ul style="list-style-type: none"> • Honeywell • Tokyo Keiki (ex Tokimec) • Kelvin Hughes • Maris • Icom • Kodon • Norbit • Navitron • Humminbird • Nexus • Sam Electronics • Maretron • Vaisala • Etc.
CARGO CONTROL <ul style="list-style-type: none"> • Cargo Monitoring • Ballast Monitoring • FO Tanks Monitoring • Pumps Monitoring • Manifolds Monitoring 	<ul style="list-style-type: none"> • Analog type <ul style="list-style-type: none"> - 0/4...20mA - ±10V - Pneumatic • RS422/RS485/RS232/USB serial protocols <ul style="list-style-type: none"> - Modbus (E.g. Krohne Cargomaster, Etc.) - Fieldbus - Other custom serial protocols (E.g. Kongsberg ASAP, Emerson SAAB, Auxitrol MICAD, Musasino, etc.) • CAN bus • Voltage Pulses • Etc. 	<ul style="list-style-type: none"> • Emerson Rosemount (SAAB) • Erma First • Kongsberg Autocargo • Enraf Auxitrol • Hanla Level • Samsung SSAS-TLGS • Musasino • Krohne Cargomaster • Framo • Various Electrical Load Analysers (installed at pumps, etc.) 	
ALARM MONITORING SYSTEMS (AMS)	<ul style="list-style-type: none"> • Analog type <ul style="list-style-type: none"> - PT100 - 0/4...20mA - Voltage - Frequency • RS422/RS485/RS232/USB/TCP serial protocols <ul style="list-style-type: none"> - Modbus RTU - Modbus TCP - Fieldbus - Any custom serial protocol • CAN bus • Etc. 	<ul style="list-style-type: none"> • Bemac Uzushio • Samsung SSAS • Aconis <ul style="list-style-type: none"> - 1000 - 2000 - 2000E, etc. • Terasaki <ul style="list-style-type: none"> - WE21 - WE22 - WE500 - Megaguard - Teranet50X • JRCS <ul style="list-style-type: none"> - SMS-22K - SMS-55 	<ul style="list-style-type: none"> • Kongsberg <ul style="list-style-type: none"> - DataChief 2000 - DataChief C20 - K-Chief 500 - K-Chief 600 - K-Chief 700 • Lyngsø Marine <ul style="list-style-type: none"> - UMS 2100, Etc. • Etc.
TORQUEMETERS	<ul style="list-style-type: none"> • Analog type <ul style="list-style-type: none"> - 0/4...20mA - Frequency - Voltage • RS422/RS485/RS232 serial port. <ul style="list-style-type: none"> - Modbus type - NMEA type o Custom serial protocol • CAN bus 	<ul style="list-style-type: none"> • Kyma • Lemag • VAF • Seatechnik • Leutert • Shoyo Engineering • Kongsberg • Terasaki 	<ul style="list-style-type: none"> • AMS • Aquametro • Datum • Hoppe Marine • ABB • Trelleborg • BMT Smart

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SYSTEMS	SIGNAL TYPES (INDICATIVE)	MAKERS & MODELS (INDICATIVE)	
POWER MANAGEMENT & MAIN SWITCHBOARD	<ul style="list-style-type: none"> • Analog type <ul style="list-style-type: none"> - 0/4...20mA - Voltage • RS422/RS485/RS232/USB serial protocols <ul style="list-style-type: none"> - Modbus - Any custom serial protocol • CAN bus 	<ul style="list-style-type: none"> • Hyundai Aconis PMS (2000, Etc.) • Kongsberg K-Chief • Wärtsilä • Terasaki (Mega-Guard, Etc.) • Power Analysers that collect the Busbars' Electrical Load • Watt transducers • Power/Current/Voltage Indicators 	
FLOWMETERS Fuel/Lubricant Oil <ul style="list-style-type: none"> • Mass Consumption • Volume Consumption 	<ul style="list-style-type: none"> • Voltage Pulses <ul style="list-style-type: none"> - Open Collector - PNP - NPN - Reed switch • Contact <ul style="list-style-type: none"> - Current Pulses (NAMUR) - RS422/RS485/RS232 serial protocols - Modbus - Any other custom protocol 	<ul style="list-style-type: none"> • VAF • ABB • Endress+ Hauser • Krohne • Tokico • Akatuki Seiki • Nitto Seiko • Aquametro (Contoil) 	<ul style="list-style-type: none"> • Alfa Laval • Kral • Emerson • Istec • Aliamag • Flomec • Fluxus
STEAM PRODUCTION PLANT AUX <ul style="list-style-type: none"> • Boilers • Exhaust Gas • Economizers • Composite Boilers 	<ul style="list-style-type: none"> • Analog type <ul style="list-style-type: none"> - 0/4...20mA - PT100 - Voltage • Digital type <ul style="list-style-type: none"> - Status signals 	<ul style="list-style-type: none"> • Aalborg • Mitsubishi • Kangrim • Etc. 	
OTHER <ul style="list-style-type: none"> • Inert Gas Systems • Bow Thruster • Reefers 	<ul style="list-style-type: none"> • Analog type <ul style="list-style-type: none"> - 0/4...20mA - PT100 - Pneumatic - Voltage - Etc. • Status signals • Serial protocols (from power analysers, etc.) 	<ul style="list-style-type: none"> • Framo • Wärtsilä • Rolls-Royce • ZPMC • ABB 	

The list is indicative and includes all equipment compatible at the time this document is created. All trademarks, service marks, trade names, product names and logos appearing in the document are the property of their respective owners.