



SMART SALINITY SYSTEM

TYPE IC/SSS

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MARINE ELECTRIC SYSTEMS, INC., is proud to introduce its "Smart Salinity System." The user-friendly microprocessor based system incorporates features not found in any other system. With its modular channel configuration, you can design your own system with 1 to 30 modules.

SMART MODULE: Each module is a self-contained, stand-alone unit, and features:

- 3 Digit LED Display
- Continuous real-time PPM or uS/cm salinity readings
- The ability to accept both MIL-S-15103 Rev D and Rev F salinity cells
- Individual power supplies for stand alone application
- User adjustable "Alarm Level Set Point" control with LED "Alarm Indicator"
- "Meter Test" switch
- User selectable "Normal/Simulate" function switch
- Memory storage for up to 24 hours of previous readings in case of power failure
- Remote RS-232 communication port for data download for individual module or complete system
- Remote isolated 4-20mA output
- Remote 0-10 VDC output
- Remote differential salinity output

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SMART SYSTEM: As part of a complete system, the salinity module interfaces with the system's Master PCA (Printed Circuit Assembly), to incorporate both "Dump" and "Bell" capability, while allowing data to be stored, time stamped and cell locations, identified. At a push of a button, the salinity data, either PPM or uS/cm, can be down loaded to an optional data logger or printer, for trend analysis or ease of troubleshooting problem locations.

OPTIONAL SMART MODULES: The *Smart Salinity System* can be configured with up to 30 modules and incorporates a variety of choices in module types. Along with salinity, optional modules can be installed to monitor ORP, Temperature, Chlorine, pH and Pressure.

SALINITY CELLS & VALVES: Salinity cells and valves are designed to accommodate various water qualities. Depending on service, cells are constructed of either brass or stainless steel for military and industrial applications or plastic (for commercial use). Valves are bronze or stainless steel gate valves, with connecting nipples to secure and properly locate the cells in the piping system. Cells that automatically compensate for water changes between 40 & 250° F are typically found in ranges of, 0-10 GPG, 0-5 PPM, 0-20 PPM, 0-50 PPM, 0-1000 uS/cm, 0-10 uS/cm, 0-50 uS/cm and 0-500 uS/cm. NOTE: For special requirements, please contact factory.

DISTILLATE (Dump) FLOW CONTROL VALVES: THE MARINE ELECTRIC SYSTEMS valves are high speed (milliseconds), high pressure devices which operate on low power. No other valve type is as fast and operation is completely automatic. The valves have three distinct system connections for inlet, delivery and waste. Routing is very positive, and can be done at option and repeated frequently without harm. A full system flow change is possible within milliseconds without loss of heat balance. The valves also have the ability to hold pressure equally well in both flow directions to prevent leakage between waste and delivery. Maximum operating differential pressure is balanced.

Valve bodies reflect one piece construction with connection nipple adapters in line with the branch ends at right angles. The stem travels less than 5/8" and the solenoid is housed in a watertight enclosure. In operation, the stem is pulled to the "normal" position by the solenoid and returned by the spring when de-energized. A 2" port requires only 25VA of power to open and is closed by spring force.

With these state-of-the-art features, it's easy to see why The MARINE ELECTRIC SYSTEMS Flow Control Valves can be counted on to deliver reliable service day in and day out.

Salinity control and monitoring systems from MARINE ELECTRIC SYSTEMS can be configured to meet your special requirements. Our engineering team is available to work with you in finding the best solution.



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