Model 9211/9299 Control Systems

Prime Technology's Models 9211 and 9299 are Mil-Spec qualified, versatile, stand-alone, modularly designed, computer embedded control systems currently utilized on Naval Ships across the fleet for smart system control and monitoring. They can be configured to control from one to six separate systems in a single chassis. The same meter modules can be configured for use in all the systems by the capability of storing up to 128 different configurations. This unique feature has the ability of reducing on-board spares by not requiring unique modules for each configuration. The software for the configuration generation is designed to be used by the end users so there is no additional costs associated with generating the different configurations. As well as their local indication, the systems can retransmit information to a remote location by either digital and or analog interfaces. System related relays are also incorporated in the design to be used in the control of pumps, valves, alarms, etc. Some of the current applications include tank level systems (TDR, float, Radar, absolute pressure), RTD systems, Air Flow monitoring systems, Pressure monitoring systems, ship's automated sanitation control on submarines, and Oily waste system to mention a few. The systems are onboard Virginia-Class, Sea Wolf, SSGN, DDG1000, aircraft carriers, and other surface naval ships, including the USS Ronald Reagan (CVN-76) and the USS George H. W. Bush (CVN-77). The systems are also used in demanding commercial applications such as tank level control for a specially designed Boeing 747 aircraft used for missile interception applications using a chemical laser.

Known throughout the military and commercial industry for their reliability and accuracy, the 9211/9299 utilizes 9212 or 9227 Smart Receiver/Indicators. The module's accuracy is 1% when using the 9212 Smart Receiver/Indicator and 0.1% when the 9227 module is selected. The patented "Cloning" feature provides a unique ability to be able to transfer curve data from one meter to another without special tools or further processing. When time is of the essence, this feature is an absolute necessity and provides a truly "plug and play" approach to monitoring that is unlike any other.

Furthermore, the 9211 series provides the user a platform to centrally mount and power a series of Model 9212 Smart Receiver/Indicators. Using the Model 9212 Smart Receiver/Indicators, the system can accept virtually any sensor input, provide local indication and retransmit the information, through an analog or digital communication port. Further, the sensor information can be processed through a user-programmed algorithm to account for non-linearity, offsets, discontinuity or any other non-normalized signals. The 9211 is designed to be bulkhead mounted with the I/O connectors beneath the chassis while the indicators face the front of the chassis.

Finally, the 9211 conforms to multiple mil spec standards including EMI (MIL-STD-461), Shock (MIL-S-901), Vibration (MIL-STD-167), Drip Proof (MIL-STD-108), Salt Spray (MIL-STD-202) and EMP (MIL-STD-1399, Part 70).

For more information regarding the 9211 please see the attached spec sheet or visit us online at www.primetechnology.com.

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