Recently, the safety of production facilities has become increasingly important. Safety instrumented systems are often used for preventing accidents resulting in injury or death and environmental pollution, and protecting expensive facilities by surely suspending plant operation on the safe side in an emergency.

The ProSafe-RS safety instrumented system is a core product for Safety Excellence (SE) solutions, one element of Yokogawa’s VigilantPlant vision. It simultaneously offers both high safety and availability, and close integration with control systems. It has been installed in more than 800 projects in 70 countries worldwide since its release in 2005.

To respond to the demand for increasing size of plants worldwide, Yokogawa released ProSafe-RS R2.03 in 2009. In this version, the CPU modules deliver four times faster processing speed than previous models, the number of input/output points was increased by 50% to 1,500 points, and the application capacity was increased by 50%. These enhancements ensure the safety of larger plants.

In the latest version of ProSafe-RS R3.01, several products strongly demanded by customers including two types of SIL3-certified temperature direct input modules, compact terminal boards, and software for improving safety have been added to the lineup. These products will ensure the further safety and reliability of plant operation.

ProSafe-RS conforms to the latest edition of the functional safety standard, IEC 61508 Ed.2, 2010. IEC 61508 is an international standard based on a risk-based concept for ensuring safety and is widely used in many industries.

FEATURES

- **Two types of newly developed temperature direct input modules**
  A thermocouple (TC) input module and a resistance temperature detector (RTD) input module have been added. These modules do not require signal conditioners because signals from sensors are directly input to these modules, thus saving space especially when multiple temperature inputs are required. In addition, ProSafe-RS is SIL3 certified, enabling highly safe temperature measurement.

- **Compact terminal boards for ProSafe-RS**
  A pressure clamp terminal type has been added to the lineup of terminal boards for connecting signals from field devices. The new terminal boards are approximately 60% smaller than the previous models, allowing the effective use of available space.

- **Software packages for access control and operation history management**
  This software restricts performable operations for individual engineers and records logs of their activities, enhancing security and easily identifying causes for troubleshooting.

- **Support for Windows 7**
  ProSafe-RS R3.01 supports Windows 7, Microsoft’s latest operating system.

- **Migration from ProSafe-PLC**
  Yokogawa offers smooth migration from its previous safety instrumented system, ProSafe-PLC, to ProSafe-RS. The plan enables existing field wiring and terminal boards to be reused, thus reducing the time and cost of migration.

Contact us
To Yokogawa Japan:
http://www.yokogawa.com/iss/iss-en_safety001.htm
For worldwide locations, please see the back cover.

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