Pressure transmitter features response time down to 90 ms

Yokogawa Corporation of America announced the release of its enhanced version of the DPharp EJA series pressure/differential pressure transmitters, one of its core sensor products, on May 1, 2013. The release included local manufacturing capabilities in their Newnan, GA facility to support the North American market.

While remaining in the same price range, the enhanced DPharp EJA series transmitters will now offer significantly improved performance and functionality, bringing great cost benefits to Yokogawa's customers. As standard features, they will have the same high-speed response and multi-sensing functionality available with the high-end DPharp EJX series.

Development background
Pressure/differential pressure transmitters are typically used in the oil, petrochemical, and chemical industries to measure liquid, gas, and steam flow rates as well as liquid levels in tanks.

DPharp EJA series transmitters are compact, multipurpose sensors with a large installed base -five million units have been sold since this series was launched in 1994. The DPharp EJX is Yokogawa’s high-end transmitter series and has self-diagnostics and other advanced functions that help plants to reduce workload and improve maintenance efficiency.

Yokogawa has enhanced its DPharp EJA series transmitters to give them the same high response speed and multi-sensing functionality found in the DPharp EJX series. These enhanced transmitters retain the high measurement precision that is characteristic of all DPharp series products.

Yokogawa will continue to make enhancements to its sensor and analyzer lineup with the aim of strengthening sales and capturing the No.1 share of the global sensor market.

Product features and benefits

1. Multi-sensing
The enhanced EJA series transmitters will be able to simultaneously measure differential and static pressure. A single enhanced EJA transmitter will thus be able to measure both the liquid level and the pressure in a tank. Previously, this could only be done with two EJA transmitters.

2. High-speed response
The response time has been brought down to 90 ms, which equals the capability of the EJX series transmitters. Specifically, this is the time from the detection of pressure to the output of an electric signal. The faster response time will now allow the enhanced EJA series transmitters to be used in high-speed applications such as turbine steam volume control.

3. Compact/lightweight design with a larger indicator
The improved EJA series transmitters weigh 30% less and have indicators that are nearly twice the size of those on the non-enhanced version.Additionally, the optional ultra-low copper aluminum housingcan providemuch improved corrosion resistance overstandard aluminumhousings making it a suitable alternative to 316SS for offshore environments, but with more than 3 pounds of weight savings per device.

4. Safety standard compliance/certification
The enhanced DPharp EJA series transmitters now comply with the International Electrotechnical Commission’s (IEC) IEC61508 international safety standard on the functional safety of electrical/electronic devices and are certified for use in safety integrity level (SIL) 2 applications as stipulated by the IEC.The enhanced EJA offers SIL capability as a standard feature offering users with mixed SIL and non-safety related applications lower CAPEX and OPEX costs through reduced spares inventory, simplifiedapplication engineering and device selection.

Major target markets

Process manufacturing industries including oil and natural gas, petrochemicals, chemicals, iron and steel, pulp and paper, power, and water treatment

Applications

Measurement of pressure and flow rate of liquid, gas, and steam; measurement of liquid level, including hydrostatic tank gauging.

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