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## PRESS RELEASE

### ***FOR IMMEDIATE RELEASE***

Date: July 12, 2010

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Release #: 970

### **Yokogawa Releases Exclusive Differential pH Sensor**

Yokogawa Corporation of America announces that the SC24V sensor is now available for pH measurements of brine solutions and applications as diverse as electrolysis processes and cheese manufacturing. The new Yokogawa SC24V is a differential combined pH sensor intended for inline process control in applications involving aggressive and dirty solutions: for example, brine in chlorine manufacturing. These types of applications have traditionally presented challenges in areas such as inaccuracy and short sensor life.

These problems – most of which relate to the reference cell - are caused by a combination of high diffusion potentials at the reference junction, the high temperatures encountered in chlorinated brine related processes, and high ground-loop currents in the pH sensor circuits. The new sensor features a sealed glass reference cell which prevents fouling and ensures measurement stability as well as being virtually maintenance free.

In the SC24V differential pH sensor, the reference cell is hermetically sealed in glass, with no porous junction. No electrolyte is in contact with the process, so the sensor does not suffer from diffusion potentials. The result is a very stable linear voltage output over a typical range of 2-14 pH. It also means that the sensor will operate successfully with minimal maintenance requirements under conditions of high pressure and temperature, or in the presence of corrosive

materials. The only wetted materials are platinum and glass, so the unit has a high chemical resistance as well as being sanitary in use.

Because the sensor integrates four functions in one – pH sensing, reference cell, temperature compensation and liquid earth (ORP), the user only has to deal with one sensor and one cable. The unit is designed for 12 mm PG13.5 mounting, but with the addition of an adapter the SC24V is compatible with most industrial holders. In addition, the SC24V is the most maintenance free pH sensor in the market today. The sensor can also be used for ORP/Redox control applications.

### **SC24V Features**

#### **Low Long Term Cost of Ownership**

- Low maintenance
- No electrolyte is in contact with the process
- No porous junction, no diffusion
- No contamination of the process by electrolyte
- High chemical resistance
- Minimal calibration requirement

#### **Reduced Cost To Install System**

- Non-fouling combined pH robust sensor
- Hermetically sealed reference cell for long life and stability
- Compatible with most industrial holders
- 4-in-1: pH, reference, temperature, liquid earth (ORP)

#### **Reliability**

- High stability

### **About Yokogawa Corporation of America**

Yokogawa Corporation of America is the North American division of \$ 4 billion Yokogawa Electric Corporation, a global leader in the manufacture and supply of instrumentation, process control and automation solutions. Headquartered in Sugar Land, Texas, Yokogawa Corporation of America offers a variety of clients with leading products on the market as analyzers, flowmeters, transmitters, controllers, recorders, data acquisition products, measuring instruments, distributed control systems, and more. For more information about Yokogawa, please visit our website [www.yokogawa.com/us](http://www.yokogawa.com/us).