

SENCOM 4.0 Platform

Pulp & Paper Industry



The demanding applications and severe process conditions in pulp mills pose challenges for accurate, repeatable and reliable liquid analysis measurements.

- *Unscheduled downtime is costly*
- *Failure in service can cause loss of product or quality problems*
- *Unnoticed problems upstream can cause irreversible problems downstream*

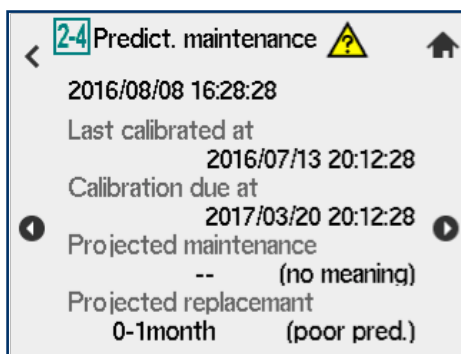
By combining the field-proven superior design of application specific sensors with the new SENCOM 4.0 philosophy and functionality, the flexibility to adapt easily to the changing industry requirements; while guaranteeing performance throughout the lifecycle of the process measurement even for the dirtiest applications lies in your hands.

To facilitate optimal processes and improve efficiency of personnel, Yokogawa has placed a strong focus on our Digital SMART Sensor SENCOM 4.0 Platform. Following Yokogawa's commitment to co-innovation, this generation of process control solutions was made in collaboration with our customers. Yokogawa's SENCOM 4.0 combines

"I just need to keep the instrument running. I worry about unplanned outages."

measurement, control, and information for more connected technologies that achieve results like never before.

SENCOM 4.0 creates sustainable value through the entire product life cycle, from the engineering and purchasing to the modification and optimization. The new liquid analyzer platform provides full visualization while improving operation, reliability and credibility of your online process analyzers utilizing the latest Sensing Technology, Asset management tools, and much more; giving you the power to truly SEE MORE DO MORE.



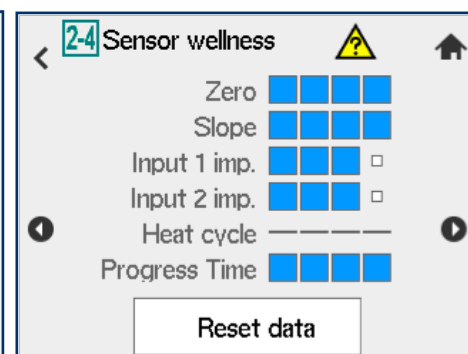
Designed to Last

Severe process conditions like high temperatures and abrasive slurries pose challenges to any pH and conductivity sensor, which also have to thrive under difficult operating environments. With Yokogawa field-proven inductive conductivity sensor.

Verified performance

Maintenance and calibration in the field can easily take half an hour per measurement monthly or bi-weekly. With more equipment to maintain, the SENCOM 4.0 platform utilizes the integrated "hot swap" and "plug and play" function will significantly decrease downtime.

The Process Guard and Maintenance Manager Functionality of SMART data gathering of historical data and calibration reports, allows users to better predict next maintenance and sensor replacement.



Increase the integrity of the measurement while optimizing the sensor performance.

Since the sensors are pre-calibrated, when it is time to change out a sensor in the field it is a simple plug and play. By using SMART

"I am frustrated with having to constantly clean and recalibrate instruments."


sensors, the calibration data is stored in the memory chip. In the field when the sensor is connected to the analyzer automatically the latest calibration data will be uploaded to the analyzer making a calibration in the field unnecessary. It will simplify maintenance and service significantly.

Reliable Measurement

To avoid unexpected failures Process Guard functionality of Real Time Sensor diagnostics gives end user immediate indication when there is a problem. Tracking sensor

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2-4 SENCOM sensor sts. 	
Last date of Sterilization	2017/01/23 19:49:51
High temp.1 total	0 h
Last date of High temp.1	2017/01/23 19:49:51
High temp.2 total	0 h

impedance readings gives users the ability to detect early pH sensor coating or polarization of a conductivity sensor, before there is measurement failure.

The Data-Logging Function provides a total process analysis by showing the record of the measured data before, during and after the event occurred. Sensor wellness function

predicts next maintenance and sensor replacement, for early detection of sensor failure, for pro-active maintenance.

Preparing for the future

Industrial automation is moving towards SMART products, with sensors changing from analog to digital SMART. This transition can affect plant operations and take time to fully implement. With the new Yokogawa SENCOM 4.0 Platform, upgrading to the next generation SMART product is easy, and an

"I worry about plant obsolescence and the costs of keeping plant instrumentation and control systems current."

upgrade transfer can be done at any time with little impact on operations. The SENCOM 4.0 Platform accelerates time-to-value of the

new technology and provides the connection flexibility, simplicity, and efficiency to seamlessly move data and workloads on an ongoing basis.

Moving forward the SENCOM 4.0 Platform will give more insight in the total measurement and will enable enhanced capabilities such as cloud connect ability, data mobility providing more credible data through the entire lifecycle of the products.

Yokogawa delivers measurement and instrumentation devices that offer extreme precision with dependable measurement accuracy, application flexibility, reliability and serviceability, creating value for you in **both time and money savings.**

SENCOM 4.0 Platform

Next generation liquid analyzers

YOKOGAWA 
Co-innovating tomorrow™

See More Do More

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