

KAJAANI, FINLAND, FEBRUARY 27, 2020

# ABB launches new Optical Consistency Transmitter sensors to improve retention measurement

New sensors offer widest variety of measurement options available, incorporating unique principles for unparalleled levels of accuracy and control, with reduced maintenance

ABB has today launched its KPM KC9 Optical Consistency Transmitter family, a new range of sensors that provide accurate measurement of total and/or ash consistency for better wet end measurement and control in pulp and paper processes. The sensors are suitable for pulp, paper, board and tissue manufacturers using virgin or recycled raw materials, particularly those using ash fillers, where only optical sensors are effective to measure ash consistency.

Available as either inline or bypass sensors, the entire KPM KC9 Optical Consistency Transmitter family offers the widest range of sensor options currently available and is best suited to measure the lowest consistency ranges. Providing reliable and accurate results, the sensors permit maintenance while processes are running, unlike other consistency sensors which require a shutdown and emptying of the process pipe.

The sensors work in tandem with ABB's KPM KRA/KRT Retention Measurement System, used to monitor and control paper and board machine retention. Available in two options, the KRA unit measures white water total consistency as well as ash consistency. The KRT unit measures total consistency only.

"These new sensors employ unique measuring principles to ensure each application is covered cost effectively without compromising measurement accuracy," said Per Sandstrom, Head of Lab and Process Testing Measurements, Pulp and Paper, Process Industries, ABB. "The sensors provide better control of deinking processes and machine wet end, enabling the highest proportion of on spec product with limited maintenance and lower installation costs."

Besides its Optical Consistency Transmitter, ABB's retention measurement system includes all necessary modules to ensure accurate and trouble-free measurement of headbox or white water stock, where consistency is so low that only optical technologies can be used. The system and sensors are part of ABB's complete solution set for the wet end, including quality control, automation, advanced process control, instrumentation and much more.

## The KPM KC9 Optical Consistency Transmitter range

### Inline sensors

The KPM KC9 inline consistency sensors are developed to measure single component fiber consistency in liquids from 0-14 percent.

**Bypass sensors**

The KPM KC9 bypass consistency sensors are developed to measure consistency in liquids from 0–5 percent.

All the new models with updated electrical and software design are evolved from industry-proven KPM OC Optical Consistency Transmitters. These were originally developed in cooperation with Cerlic, which has a 40-year heritage in pulp and paper applications.

For further information on the KPM KC9 Optical Consistency Transmitter family of sensors, please visit: <https://new.abb.com/pulp-paper/abb-in-pulp-and-paper/products/process-measurements>

**ABB** (ABBN: SIX Swiss Ex) is a technology leader that is driving the digital transformation of industries. With a history of innovation spanning more than 130 years, ABB has four, customer-focused, globally leading businesses: Electrification, Industrial Automation, Motion, and Robotics & Discrete Automation, supported by the ABB Ability™ digital platform. ABB's Power Grids business will be divested to Hitachi in 2020. ABB operates in more than 100 countries with about 144,000 employees.

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