

New generation sensors OnQuality.Sensors



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Quality Control System (QCS) OnQuality

Voith supplies comprehensive automation solutions for the pulp and paper industry worldwide. The core of the automation systems is the OnQuality quality control system. The objective of this development was to create the most reliable quality control system for the demanding environment of paper and pulp production. And the result speaks for itself: You can rely on the precision and availability of OnQuality.Sensors.

Voith's OnQuality Quality Control System (QCS) is a smart and integrated concept that enables manufacturers to gain control over production processes and product quality. OnQuality offers the possibility to stabilize and optimize product quality and the production process, to increase productivity and to reduce operating and maintenance costs at the same time.

Our QCS is the perfect system for paper manufacturers who want to meet their customers' high paper quality requirements and increase their operational efficiency. Our system is smart and modular. At the same time, it is so compact that it fits into almost any paper machine. The attractive life cycle costs improve the competitiveness of your production through higher reliability and lower maintenance expenditure.



Products & solutions

The measurement frames are built to be integrated into all paper machines even with small available space and in high temperature environments.

Measurement plates and heads are highly standardized components that ensure a plug and play configuration of sensors. The sensors have a small format that is easy to handle. The QCS is based on the modular automation platform ComCore. ComCore allows an easy integration of the QCS into a customer automation system and provides clear information and access to the paper maker.

OnQuality.Sensors

OnQuality.Sensors are compact, robust and include state of the art technology. They include a smart sensor and comprehensive diagnostic functions and insure easy access for maintenance and system extension. Interfaces are easy to use. All sensors include the new processor board with powerful signal processing capacity and standardized communications.

OnQuality.Scanners

- Standard O-frames for most applications
- Single side frames for narrow installation
- Highest reliability in the industry
- Flexible application for all size paper machines
- Garage function to keep sensors clean (option)

ComCore

The Voith quality control system is based on the modular automation platform ComCore. The modularity allows easy integration of your quality control system into existing automation systems and provides clear information flows. The easy-to-use user interfaces allow direct access and optimization of the quality parameter profiles.



OnQ Basis Weight Sensor Krypton 85

Contactless measurement of basis weight, designed for basis weight range up to 1 200 g/m².



OnQ Moisture Sensor IR Transmission

Contactless measurement of moisture content by the absorption of infrared light at four wavelengths.



OnQ Moisture Sensor IR Reflection

Measures moisture content single sided and contactless, based on the proven 'Same Spot' technology.



OnQ Moisture Sensor Microwave DS20

Measures moisture content via microwave technology.



OnQ Tissue Sensor TecoSens

Measures moisture and fibre weight of tissue paper grades without the need for radiometric sensors.



OnQ Ash Sensor Fe 55

Contactless measurement of mineral content in a paper web using gamma ray absorption.



OnQ Ash Sensor Fe 55 XRF

Contactless measurement of mineral content in a paper web using gamma ray absorption and additional XRF.



OnQ Caliper Sensor Light Touch

Contacting sensor for accurate, on line measurement of paper thickness based on magnetic reluctance through the sheet.



OnQ Caliper Sensor Dual Air Bearing

Contactless measurement for accurate measurement of paper thickness, based on the measurement of the magnetic resistance between the measuring plates.





OnQ Color Sensor 45°c:0°

First industrial, full spectral, online sensor which measures color, whiteness, brightness and opacity.



OnQ Gloss Sensor 75°

Contactless measurement of gloss for machine-finished and calendered board and paper, according to the ISO 8254-1 Tappi 480 method.



OnQ Coat Weight Sensor IR Reflection

Contactless measurement of coat weight by the absorption of the reflected infrared light of a defined wavelength spectrum.



OnQ Fiber Orientation Sensor

Measures the surface fiber orientation profile, using high-resolution macro photography and digital image processing.



QCS 4.0 OnView.VirtualSensors

To overcome the boundaries of physical sensoric Voith offers several virtual sensor applications.



Basis weight



Ash content



Moisture



Thickness / Caliper



SCT (STFI)

CMT

Burst (Mullen)

Stiffness

Fold crack resistance



Porosity



More to come



We support you with our customized service packages On-site or remotely from our [OnPerformance.Lab](#)

Thanks to our worldwide service locations and many years of know-how, we are very familiar with our customers' processes and are able to intervene immediately if necessary.

With our service packages individually tailored to customer requirements, we increase our customers' productivity by increasing plant availability, optimizing operating costs and ensuring quality.

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