

Connected Plant Asset Solution Optimizes QCS Scanner Performance and Reliability

Application Note

“With Honeywell monitoring our QCS scanner, we can detect potential operational issues and make the right people aware of problems. This minimizes unnecessary downtime, improves production, and helps reduce maintenance costs by more than 50 percent .”

- Mill Manager, Leading Paper Manufacturer

Background

For any papermaker, Quality Control System (QCS) performance and reliability are crucial concerns. The QCS processes information and delivers measurements of sheet parameters such as basis weight, moisture, temperature and brightness out of the dryer.



Since their inception, Quality Control Systems (QCS) have played an integral role in the quality and efficiency of the paper industry.

Challenge

Besides difficult economic issues, competition in the paper industry has intensified to a global level, which requires finding new ways to survive and thrive. In addition to improving operational processes, there is a need to lower maintenance costs while raising quality standards.

Effective QCS maintenance programs are a valuable way to reduce operating costs, and at the same time, ensure critical production assets like scanner equipment remain robust and reliable.

Solution

Honeywell's Connected Plant Asset Performance Insight solution is the backbone of our QCS Scanner Monitoring Service, which allows paper

producers to continuously monitor equipment health and provide service experts with the information they need to run the system in the most effective way possible. This powerful tool helps optimize efficiency and reliability, and ensure the lowest equipment cost-of-ownership.

Connected Plant Asset Performance Insight securely connects to remote scanners at over 60 facilities worldwide and is helping customers maximize investments by improving equipment productivity, minimizing costs throughout the asset lifecycle, and enhancing and extending performance.

The Honeywell QCS Scanner Monitoring Service can be tailored to address a variety of requirements. Customers can choose the services and level of support that best fits their operation and budget. Furthermore, the service ensures faster response to problems, making the right experts available quickly while helping to reduce overall maintenance costs.

From telephone and web support, and direct and secure system interaction, to condition-based automated alerting and robust asset dashboards, Honeywell's remote service provides real-time, 24-hour direct access to global technical and service specialists.

Honeywell's solution enables the earliest possible indication of performance degradation and the appropriate prioritization of actions to prevent failure by employing multiple asset analytics methodologies. An intuitive user interface helps operators quickly comprehend information through easy to understand visualizations and in-place data drill downs.

Using remote equipment health monitoring tools, Honeywell specialists are notified whenever key scanner performance variables go outside the predefined optimal state. The technicians can access the system to get a description of the

At many paper mills, there is an urgent need to make-up for the lack of technical support due to budget constraints and early retirement. Allowing remote monitoring from experienced and knowledgeable experts is a means to obtain extra support if needed.

About Honeywell Connected Plant Asset Performance Insight

Honeywell Connected Plant Asset Performance Insight helps manufacturers maximize throughput and asset lifespan while reducing unnecessary maintenance, off-spec quality, compliance issues, and downtime. It closes the loop by integrating asset and process data for actionable insights to improve asset performance and plant profitability.

problem and alert designated representatives with information to guide them to the identified area. This process enables the mill to minimize or eliminate downtime.

Honeywell personnel can also log in to equipment health monitoring tools to log alerts and collect trending data. Detailed reports assist mill personnel in addressing improvement opportunities. This helps ensure maximum value is realized from the experts monitoring QCS scanner performance.

For example, during remote monitoring on a tissue machine, the QCS monitoring application may send alert notices causing technicians to take a close look at sensor data and discover a problem such as a pneumatic actuator malfunction on the sensor. This capability can allow the technicians to repair the sensor before it fails completely, resulting in system downtime or erroneous manipulation of process controls.



Example of condition-based automated alerting

In another case, the QCS monitoring service can be used for condition-based automated alerting on key variables such as moisture – enabling technicians to zero-in on issues with automated tools employing simple or complex system/fault models. They can see a signal decreasing to the

For More Information

To learn more about how Honeywell's QCS Scanner Monitoring Service can improve performance, visit www.honeywellprocess.com or contact your Honeywell Account Manager.

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reference channel. When the reference channel is too low, impacting sensor measurement accuracy and control performance, the technicians can re-adjust the signal. Buildup on the sensor window often causes the decreasing voltage.

Benefits

Major papermaking companies have found that the Honeywell QCS Scanner Monitoring Service helps improve maintenance effectiveness while reducing associated expenses by more than 50 percent and lowering the cost replacement parts. Specific benefits include:

- Optimization of asset management strategies and significant budget control improvements
- Early detection of issues and notification of the right people at the right time
- Elimination of associated production losses due to lack of timely information
- Quick response by both remote and local technicians for rapid problem resolution
- History trending of diagnostic variables for valuable troubleshooting
- Centralized tracking of unavailability events for use in long-term trend analysis
- System performance management reports providing information to improve reliability

Summary

Honeywell understands the demanding papermaking business. The company has extensive experience in this market, and offers the right products and services to meet customers' specific needs.

Honeywell's QCS Scanner Monitoring Service, utilizing the Connected Plant Asset Performance Insight solution, help mills ensure that proactive maintenance activities are scheduled for increased operational productivity. The service identifies, classifies and prioritizes opportunities to improve measurement accuracy, control resource utilization and extend equipment health. In addition, it provides fast and accurate troubleshooting through real-time visualization and analysis of a host of scanner performance indicators.

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