Pulp and paper lab testing environments are tasked with providing quick and accurate reports on samples to ensure any process corrections can be made as soon as possible. ABB’s L&W Lab Management System is a software-based quality data management system that can help cut lab procedure time in half with accurate, automated lab reporting.

Overview

Manual entries can be monotonous and suffer accuracy and time-related challenges. ABB’s L&W Lab Management System helps improve the efficiency and correctness of lab results by automating routine and repetitive lab tasks to eliminate errors and expedite process corrections.

By automatically capturing sample measurements from lab equipment and delivering results into customizable dashboards, productivity is increased and focus on issues effecting quality can be improved.

Key system features like web browser access, limited hardware and scalable storage help papermakers take lab operations to the next level.

Benefits

- Cuts lab procedure time in half and expedites reports
- Reduces time to issue identification
- Helps expedite process corrections
- Creates better lab process workflow
- Improves productivity and reduces error
- Helps reduce quality losses and increases profit potential
- Provides a holistic view of a lab's quality data

Features

- Web-based application with customizable dashboards
- Scalable with add-on modules for extended reporting, analysis, integration and more
- Simple installation
- Backwards compatible with older generations of L&W Autoline and stand-alone instruments
- Intuitive interface requires minimum training and configuration for paper testing lab environments
- Flexible data storage options to align to mill needs
- Data analysis compares up to four paper properties and plots trends/analysis with previous batches
- Historical database enables comparison on how the same grade performs throughout the year
- Available in multiple languages
- Integrates with extended ABB Ability™ offerings
Alignment to paper lab preferences
Designed with the lab process in mind, personnel will have more time to increase the volume of tests and focus on overall quality management.

L&W Lab Management System automatically collects and reports on results obtained from standalone instruments (ABB or third-party) as well as ABB L&W Autoline. The actual workflow is built to align to the sequence of tasks laboratories follow when a sample is received for testing.

A sample is first identified in the system (via manual entry, bar code reader, production system, etc.). The selected test plan directs the user to carry out measurements in a planned order. The system offers two operating modes to align test plan preferences:

**Sample mode**
A sample is measured sequentially in all of the required instruments with any measurement made on these instruments being automatically recorded against the sample.

**Instrument mode**
Multiple samples can be measured on one instrument by choosing from list of samples waiting to be tested.

In either mode, the measurement value is immediately compared against the respected target and limit sets with any values outside the limits highlighted in accordance to its severity.

Customizable dashboards, reports and analysis
The modern interface allows for role-based configurations by operator, supervisor or management. Users can choose to view information by sample (figure 1), position, time, or instrument.

The measured values are compiled, and the statistics analyzed, in real-time. The mean value of the completed measurements is always displayed and updated as more tests are run.

Historical sample analysis is also supported with the ability to see trend graphs on up to four properties simultaneously.

Different reports are available and can be exported in different templates and file formats.

Integration with mill systems
Measurement results can be exported as xml files to mill data/ERP systems. Reports from the L&W Lab Management System can also be integrated with ABB Quality Data Management and/or ABB Ability™ Manufacturing Execution System to enable lab information to be included with other key process indicators.

Technical specifications

<table>
<thead>
<tr>
<th>Inclusive</th>
<th>Lab Management System software delivered and installed in a server computer (customer supply).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instrument interfaces</td>
<td>L&amp;W PF1, PF2, PF4 instruments and L&amp;W Autoline. For older and third-party instruments, contact support.</td>
</tr>
</tbody>
</table>

Minimum installation requirements

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Computer with Windows 10 OS/Windows server 2016 or above 8GB RAM 200 GB free Hard Disk space LAN network among instruments and server</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network connection</td>
<td>Web interface should be opened in Google Chrome or Opera web browser.</td>
</tr>
</tbody>
</table>

For more information, please contact:

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