Control of PPS measuring heads is a well-known problem. Therefore we are offering a control system with paper samples from our central PPS Master.

Roughness measurement using the PPS method is characterized by very high accuracy, compared with other air-leakage methods. However, the measurement result can vary from one measuring head to another. The reason is that the small width of the contact surface between the measuring head and the test piece makes individual calibration of the measuring head almost impossible. There is therefore no standard definition of the contact surface’s fineness, instead the heads are evaluated in relation to a master.

**Inspection system with paper samples**
Reproducible measurement results are of great importance for users who have several instruments in use. This has required the user to have his own system for internal comparison of the various heads, but with L&W PPS Master Kit, we can offer a considerably more simple and less time-consuming solution.

L&W PPS Master Kit consists of a series of paper samples at different PPS levels that have been measured using our central PPS Master. By using the same samples, the operator can simply decide if their company’s L&W PPS Tester provides reasonable values, either it is an L&W Autoline module or a stand alone instrument.

**Reliable measurements**
L&W PPS Master Kit permits continual adjustment of a paper mill’s complete set of L&W PPS Testers so that all measurement results will be comparable and repeatable. As the measured values specified on the paper samples are based on ABB’s own accurate master system, the user can rely on the measured PPS values being reliable.

**Subscription system**
Each quarter you receive a sealed bag with a set of paper samples with three different surface roughness levels. The bag must be opened in a conditioned environment. After cleaning of the PPS instrument’s measuring head and inspection of all functions, it is then only a matter of measuring the samples and comparing the results with the specific values. If the difference is small, it is sufficient to supply a corresponding adjustment level provided by the instrument. If the difference is large, it is advisable to get in touch with ABB Service. To achieve the best reliability, each sample should only be used for one inspection measurement. To become a subscriber, please contact your ABB sales person.
As a subscriber you will receive a set of paper samples with defined average values each quarter.

**Benefits**
- Control of reproducibility and accuracy
- Regularly checked
- Paper samples are sent automatically and directly to customer
- Traceable paper sample measurements

**L&W PPS Master Kit**

<table>
<thead>
<tr>
<th>Image</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="L&amp;W PPS Tester (master)" /></td>
<td>L&amp;W PPS Tester (master) with 6 reference measuring heads. The PPS master instrument have six reference measuring heads. These measuring heads are checked regularly against each other, and in this way a common measurement level is maintained.</td>
</tr>
<tr>
<td><img src="image" alt="Reference area, measured with master L&amp;W PPS Tester" /></td>
<td>Reference area, measured with master L&amp;W PPS Tester. The reference area of the paper sample is measured with the master instrument. The paper samples including soft backing are sent to the customer to be measured with their instrument, together with the measurement report with stated values.</td>
</tr>
<tr>
<td><img src="image" alt="Test area, measured with customer's L&amp;W PPS Tester" /></td>
<td>Test area, measured with customer’s L&amp;W PPS Tester. The test area of the same paper sample is measured with the customer’s instrument. The measured value is then compared to the measured value from the master instrument to see if the customer’s instrument is providing accurate measurement results.</td>
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