L&W Moisture Tester
Lorentzen & Wettre Products | Process Optimization

L&W Moisture Tester is the ultimate offline moisture measurement solution for paper, paperboard, corrugated board, dry pulp, and other fibre materials. It measures moisture content at all stages of the process chain. And thanks to the quick measurement procedure, it can also be used for product checking when online moisture sensors indicates out of specifications.

L&W Moisture Tester measures and calculates moisture content and grammage (basis weight) in paper, paperboard, corrugated board, dry pulp and other fibre materials. The measurements values assist the machine operators in keeping an even and high product quality. Variations, which influence the pulp or paper quality, are quickly traced before leading to waste and costly break-downs.

It is a high precision offline bench-top moisture meter for production control, calibration and verification of online systems. It consists of a dual sided moisture sensor, based on microwave technology, and a microprocessor, where all measurement values are calculated and then presented on a display. An electronic precision balance (optional), directly connected to L&W Moisture Tester, is used for weighing the samples in order to record the dry and total basis weight.

Benefits
• Time saving (replaces the gravimetric method),
• the measurement takes only a few seconds
• Measurement results are not affected by curled materials, uneven surfaces or multilayer structures
• Well proven measurement method
• Suitable for trouble shooting
• Back-up for online moisture sensors
• Minimum of maintenance

Fast and reliable
The well proven microwave technique gives reliable and stable measurement results, independent of produced grade, including waste paper. L&W Moisture Tester measures the moisture content on a large and representative sample in just a few seconds. Measurement results are not affected by curled materials, uneven surfaces or multilayer structures.

All strength properties are sensitive to moisture – about 1% change in a sample's moisture content, changes the compression strength with an average of 8%. It is a significant factor and it has to be taken into consideration.

Easy to operate
L&W Moisture Tester measures moisture content at all stages of the process chain, for example: pulp sheets before leaving the pulp mill, incoming pulp sheets before processing, paper products in the converting plant (corrugated board etc.). The operator simply takes a sample from the machine, puts it on the precision balance for a few seconds and then moves it through the measuring gap. Thanks to the quick measurement procedure, the instrument is also suitable for trouble-shooting and can be used for product checking when online moisture sensors indicates out of specifications.
L&W Moisture Tester is easy to use. Before measurement the sample is weighed – in order to record the dry and total basis weight. After the weight is registered, the operator puts the sample into the measuring gap. Measurement result is presented on the easy-to-read display in just a few seconds.

**Technical specifications – L&W Moisture Tester, code 862**

**Measurement range**
The grammage (basis weight) of the samples has an impact of the measuring range.

![Maximum working range – L&W Moisture Tester](image)

**Results (measurement values in SI or FPS units)**

<table>
<thead>
<tr>
<th>Moisture content</th>
<th>in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dryness</td>
<td>in %</td>
</tr>
<tr>
<td>Air dry</td>
<td>in %</td>
</tr>
<tr>
<td>Dry basis weight</td>
<td>g/m²</td>
</tr>
<tr>
<td></td>
<td>lb/1000 ft²</td>
</tr>
<tr>
<td></td>
<td>lb/3000 ft²</td>
</tr>
<tr>
<td></td>
<td>lb/3300 ft²</td>
</tr>
</tbody>
</table>

**Operation environment**

Temperature: 10–35 °C (50–95 °F)

**Installation requirements**

Power: 10 W

**Connections**

Computer: USB

Balance: RS 232

**Options**

Balance

**Dimensions**

0.3 × 0.4 × 0.3 m
(12 × 16 × 12 in)

Volume: 0.1 m³
3.5 ft³

**Net weight**

9 kg
20 lb

**Gross weight**

17 kg
38 lb

The information provided in this data sheet contains descriptions or characterizations of performance which may change as a result of further development of the products. Availability and technical specifications are subject to change without notice.

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