Moisture meter

EN Operators manual
Thank you for choosing Wile grain moisture meter. Wile 200 ensures quick and easy measurement of moisture, temperature and hectoliter weight of the sample. Automatic temperature and hectoliter weight compensation guarantees accurate results. The meter is equipped with a patented integrated grain leveling system. Excess grain goes into the compartment around test cell keeping working area neat during whole measuring process.

Read this manual carefully to learn how to operate this unit correctly.

Box Contents

1 METER
2 CARRYING CASE
3 USB CABLE
4 BATTERIES
5 MANUAL
Important: The scales of Wile moisture meters are developed to measure average quality grain. Exceptional growth conditions and new varieties of grain can considerably affect grain properties. Therefore, in the beginning of new harvest season we recommend to check the readings of your meter against an oven dried sample.

**FUNCTIONS**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Battery Icon" /></td>
<td>Replace batteries</td>
</tr>
<tr>
<td>&lt;4.0</td>
<td>Moisture is below the lower limit for this grain</td>
</tr>
<tr>
<td>&gt;28.0</td>
<td>Moisture is above the upper limit for this grain</td>
</tr>
<tr>
<td>!</td>
<td>Error code</td>
</tr>
</tbody>
</table>

**MEASURING PROCESS**

Wile 200 guides user step by step directly on the screen during the whole measuring process.

1. Place hopper on tester. Press and release ON/OFF button to turn on tester. After power up the display shows the results of the last grain tested.

2. Select grain using the UP/DOWN buttons. Once the desired grain is selected then press the ENTER button. Place tester on a stable and mostly level surface. Press ENTER to initiate test.
3. Ensure hopper slider is pushed in to keep grain from dropping. Fill hopper to the rim with sample.
4. Pull slider and the grain will evenly flow into the test cell.
5. Remove hopper when prompted. Level the grain by pushing the handle in steady motion towards the back of the unit and back removing excess grain.
6. When the handle is back to starting position, the meter will automatically start measuring. Results will appear on the screen within seconds.

FUNCTIONS AND SETTINGS
Settings and functions can be browsed and modified at the settings menu

GRAIN OFFSET
Each grain can be individually adjusted by 10.0% in increments of 0.1% to match the results of an elevator tester

LANGUAGE
Select preferred language
UNIT
Select preferred weight (kg/hl or lb/Bu) and temperature units (Celsius or Fahrenheit). When the temperature units are changed from Fahrenheit to Celsius the test weight units are also changed.

AUTO OFF
The meter will turn off automatically after a selected time (30s, 1min, 5min, 10min, 20min).

AVERAGE CALCULATION
The meter automatically calculates the average of the previous measurements. In settings menu you can adjust the number of results (3, 6 or 9 measurements) for the average calculation. The average can also be reset.

BACKLIGHT ON/OFF
To extend battery life you can turn display backlight off.
Use

LCD CONTRAST
Adjust LCD display contrast

BATTERY
Battery level can be checked. If the battery level is under 22% the meter will indicate it on the startup screen automatically, but measuring is still possible. Low battery voltage does not affect the measurement results.

WEIGHT TEST
Scale function can be checked at weight test mode. Use known weight sample up to 500 grams of weight. Follow instruction on the screen of your meter.

INFO
Info section shows software version details
CLEANING THE TESTER — TEST CELL
Use a soft, clean cloth to wipe out the cell, using extreme care not to damage the grain temperature sensor at the bottom of the test cell.

MAINTENANCE
Use a soft, clean cloth to clean device. Do not use strong detergents and do not allow liquids inside the meter. Keep the meter in a dry place, preferably at room temperature. If the meter is not used for a long time, remove the batteries.

BATTERY REPLACEMENT
The meter uses four AA (LR6) batteries. Replace all batteries at the same time.
Wile 200 is equipped with error messages to guide the user to get the most reliable results, as well as to ensure that the meter is in good condition.

<table>
<thead>
<tr>
<th>Error code</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Critical Error" /> #7</td>
<td>Critical Error</td>
<td>The meter must be submitted to an authorized service center</td>
</tr>
<tr>
<td><img src="image" alt="Weight not detected" /> #8</td>
<td>Weight not detected</td>
<td>Repeat test / Do weight test</td>
</tr>
<tr>
<td><img src="image" alt="Taring result is too high" /> #9</td>
<td>Taring result is too high</td>
<td>Do weight test and check the scale</td>
</tr>
<tr>
<td><img src="image" alt="Weight measurement uncertain / meter shook during the measurement" /> #10</td>
<td>Weight measurement uncertain / meter shook during the measurement</td>
<td>Keep the meter stable, measurement uncertainty has increased</td>
</tr>
<tr>
<td><img src="image" alt="Moisture measurement result stabilize slowly" /> #11</td>
<td>Moisture measurement result stabilize slowly</td>
<td>Happens to very wet samples</td>
</tr>
<tr>
<td><img src="image" alt="Weight measurement too uncertain / meter shook during the measurement" /> #12</td>
<td>Weight measurement too uncertain / meter shook during the measurement</td>
<td>Keep the meter stable, measurement uncertainty has increased</td>
</tr>
<tr>
<td><img src="image" alt="Temperature of the sample lower than 2 C / Measurement uncertainty is high" /> #13</td>
<td>Temperature of the sample lower than 2 C / Measurement uncertainty is high</td>
<td>The tester is most accurate when grain and tester temperature is between 16C and 32C</td>
</tr>
<tr>
<td><img src="image" alt="Temperature of the sample above 50 C / Measurement uncertainty is high" /> #14</td>
<td>Temperature of the sample above 50 C / Measurement uncertainty is high</td>
<td>The tester is most accurate when grain and tester temperature is between 16C and 32C</td>
</tr>
<tr>
<td><img src="image" alt="Large temp. diff. between the grain and test cell / Measurement uncertainty has increased" /> #15</td>
<td>Large temp. diff. between the grain and test cell / Measurement uncertainty has increased</td>
<td>For better accuracy, grain and meter test cell should be at similar temperatures</td>
</tr>
<tr>
<td><img src="image" alt="Not on a sufficiently level surface, meter warns with sound alarm" /> #16</td>
<td>Not on a sufficiently level surface, meter warns with sound alarm</td>
<td>Keep meter stable during measurement</td>
</tr>
<tr>
<td><img src="image" alt="Weight result is over 330 g" /> #17</td>
<td>Weight result is over 330 g</td>
<td>Check that leveling handle did not stay above the test cell/ Do weight test</td>
</tr>
<tr>
<td><img src="image" alt="Weight result is under 50 g" /> #18</td>
<td>Weight result is under 50 g</td>
<td>Check that leveling handle did not stay above the test cell/ Do weight test</td>
</tr>
<tr>
<td><img src="image" alt="Hectoliter weight is 20% higher than average" /> #19</td>
<td>Hectoliter weight is 20% higher than average</td>
<td>Measurement uncertainty has increased, Do weight test</td>
</tr>
<tr>
<td><img src="image" alt="Hectoliter weight is 20% lower than average" /> #20</td>
<td>Hectoliter weight is 20% lower than average</td>
<td>Measurement uncertainty has increased, Do weight test</td>
</tr>
<tr>
<td><img src="image" alt="Test cell is not cleared before the measurement" /> #21</td>
<td>Test cell is not cleared before the measurement</td>
<td>Clear test cell</td>
</tr>
</tbody>
</table>
Warranty

This product has a warranty valid for one (1) year from the date of purchase. The warranty covers the materials and workmanship. To claim the warranty, the customer should return the defected product to the Manufacturer, reseller or the nearest Wile Service Partner at the customer’s own expense. The warranty claim must be accompanied with the description of the fault, copy of the sales receipt and customer’s contact information. The manufacturer / Wile Service Partner will repair or replace the defected product and return it as soon as possible.

The warranty does not cover any damages that are caused by incorrect or careless use of the product, installation that does not correspond to the provided instructions and other damages which may arise due to causes beyond the control of the manufacturer.

The liability of Farmcomp Oy is limited to the price of the product at a maximum. Farmcomp does not accept any responsibility for any direct, indirect or consequential damages that are caused by the use of the product or the fact that the product could not be used.

Wearing parts are not covered by the warranty e.g. Battery, Case.