

GRAIN MOISTURE METER



Aquamatic 5300
Grain Moisture Meter

Perten
a PerkinElmer Company



ANALYZE MOISTURE, TEST WEIGHT,
AND TEMPERATURE



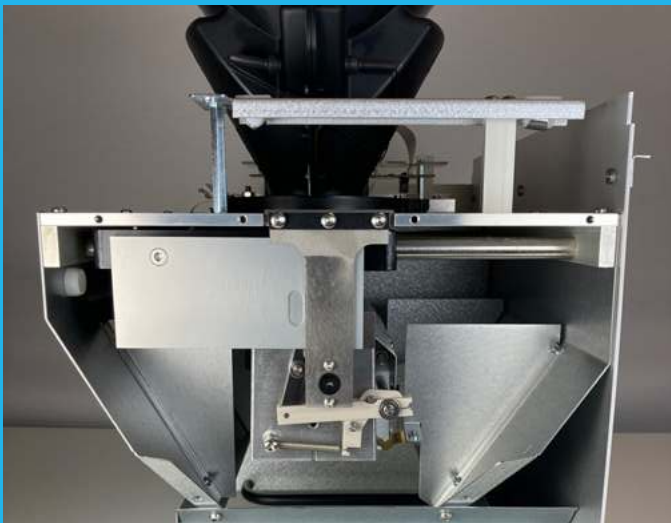
USE AS STANDALONE OR INTEGRATED
INTO AUTOMATED TESTING SYSTEMS

Getting Moisture Right

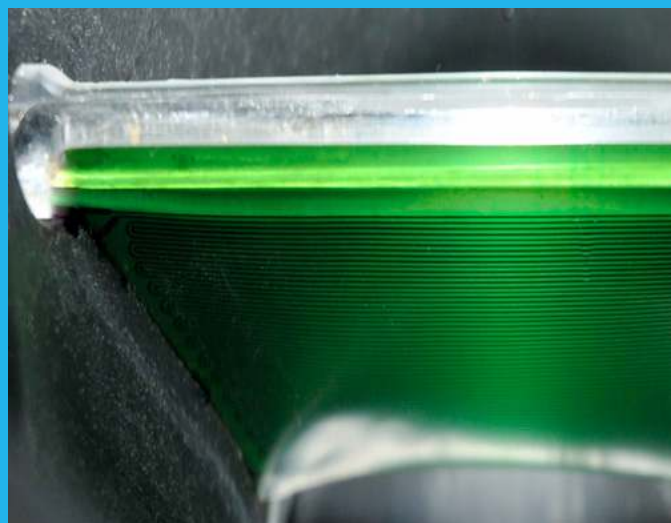
Accurate moisture content testing is a key component in the production and marketing of your grain-based foods. After all, drying costs, spoilage, and loss of weight can eat into your production – and profits. That’s what makes our Aquamatic™ 5300 grain moisture meter such an indispensable part of your grain-processing workflow.

The Aquamatic 5300 is our third-generation high-frequency moisture meter employing Unified Grain Moisture Algorithm (UGMA) technology. It can serve as a standalone moisture meter for use at terminals or can be integrated into automated testing systems.

With its high frequency, the analyzer penetrates deep into samples for improved results, while the updated UGMA provides a more accurate analysis, regardless of temperature or crop type. The improved mechanisms come together to make it the most repeatable moisture meter available – and with 10,000 meters in the field, one of the most tested and trusted. The Aquamatic 5300 system is perfect for analyzing grains, oilseeds, pulses, beans, lentils, seeds, and more for moisture, test weight, and temperature.



**ROBUST INSTRUMENT FOR LONG LIFE
AND LESS DOWNTIME**



**PRECISE SAMPLE
TEMPERATURE MEASUREMENT**

Quality Grain Deserves Quality Technology

With the Aquamatic 5300, quality comes first. The system is made of sheet metal and polymeric components, which extends instrument life and reduces the likelihood of potential damage during relocation and shipping. Plus, the single-piece cast cell ensures accurate measurements of volume/density through precise control of cell dimensions. And the RF electronics are built directly into the cell center divide, eliminating cabling and removing impedance-matching issues over time due to connector degradation.

For superior temperature sensing, a continuous strip of copper comes into contact with hundreds of kernels for a precise sample temperature measurement over a wide temperature range. The large area/low mass means quick response times when there's a large disparity between room temperature and grain temperature, down to -0.4°F (-18°C). That means better accuracy and shorter analysis times.

What's more, we use a single high-quality motor in the Aquamatic 5300, which leads to longer instrument lifetime – and less downtime. And for transportation, the AM 5300 has automatic shipping locks and load cell overtravel protection.



**AUTOMATIC ANALYSIS WITH
UGMA TECHNOLOGY**



**MINIMUM DEBRIS BUILD-UP
FOR HIGH ACCURACY**

Form Meets Function

Our experience with UGMA technology and advanced design results in an optimized analysis procedure: Select the product once, and the instrument automatically begins analysis each time a sample is poured into the hopper. Not only does that speed up the analysis, it saves wear on the touchscreen.

Because the sample strike-off is critical to controlling the flow of product through the instrument, we designed ours to minimize debris buildup – so grain doesn't get caught in the interior. And the AM 5300 uses several guides and a brush to direct grain to the collection drawer.

The door employs a self-cleaning snap-action close and is gravity driven. The door is designed to shake loose any buildup of material on the lower door. So you can be confident the cell volume won't change due to dust, which can result in erroneous weight and volume measurements.



**HIGHER FREQUENCY MEASUREMENT
PENETRATES DEEPER INTO GRAIN**



**LARGE COLOR TOUCHSCREEN
WITH INTUITIVE USER INTERFACE**

Let's Get Granular

The beauty of the Aquamatic 5300 is in the details. Here are a few that set the system apart:

Superior Accuracy

Accuracy and repeatability are achieved using a 150-MHz measurement cell made of robust, high-precision die-cast aluminum. The new cell is large enough to provide a representative sample for the measurement.

Better Results on Fresh Field Samples

Older moisture meters can read 1% to 2% low in moisture when analyzing grain straight from the field (the rebound effect). Our higher frequency measurement goes deeper into the grain, providing accurate results and faster return on investment.

Easy To Use

The large color touchscreen with intuitive user interface makes the system simple to use. You can input sample IDs, view results on a remote screen, and update through USB memory stick. And the touchscreen uses capacitive technology and even responds to gloved hands.

Rapid Analysis

Just pour the sample and the system begins analysis automatically. Results are displayed in less than 10 seconds. An optional flow-through provides for automated testing.

Modern Technology

Using higher frequency, advanced computational power, USB data transfer, and the updated UGMA, the system is designed for today's grain trade.

Get the Details

Products: Grains, oilseeds, pulses, lentils and more

Parameters: Moisture, test weight/hectoliter weight, and temperature

Analysis time: Approximately 10 seconds

Display: 7" color touchscreen

Connectivity: Ethernet, USB

Measurement technique: RF dielectric constant at 150 MHz

Sample temperature: -0.4 to 113 °F / -18 to 45 °C (for moisture < 18%)
32 to 113 °F / 0 to 45 °C (for moisture > 18%)

Sample size: 700 ml

Power requirement: 100-240 V (+/- 10%), 50-60 Hz, 60 VA

Dimensions: H: 16.8" / 426 mm, W: 17.0" / 433 mm, D: 14.2" / 361 mm

Net weight: 38.1 lb. / 17.3 kg

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