Aquamatic 5200

Grain Moisture Meter

Benefits:

Robust and reliable
Fast and accurate
Superior support
USDA Official Meter; NTEP Approved

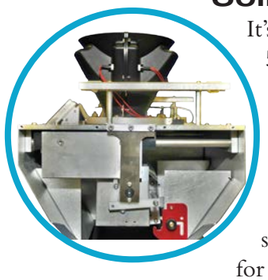
Perten INSTRUMENTS

AM 5200-A Grain Moisture Meter

Quality, Reliability, Support, Expertise

Best Quality

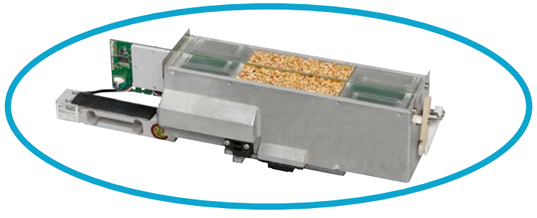
Solid Foundation



It's all about quality. The AM 5200-A is made of heavy metal sheeting and Delrin. The build quality extends instrument life and reduces damage potential during relocation and shipping. It weighs 45 lbs. for a reason.

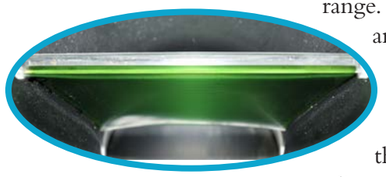
Measurement Cell & PC Board

The single piece cast cell ensures accurate measurements of volume/density through precise control of cell dimensions. The RF electronics are built directly into the cell center divide eliminating cabling and removes impedance matching issues over time due to connector degradation.



Superior Temperature Sensing

A continuous strip of copper (6.8in^2) makes 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 is a large disparity between room temperature and grain temperature, down to -4^{0}F. It means better accuracy and shorter analysis times.



Motor

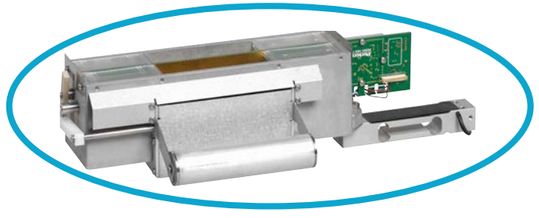
A single, high quality motor is used in the AM 5200-A. The simplicity of design leads to a longer instrument life and less down-time.

Auto-Analysis Mode

Our greater than 7 year experience has resulted in an optimized analysis procedure in this 2nd generation instrument. Select the product once, and the instrument automatically begins analysis each time a sample is poured into the hopper. Not only does it speed up the analysis, it saves wear on the touchscreen.

Lower Cell Door

The door employs a self-cleaning firm "snap action" close and is gravity driven. The "snap action" is designed to shake loose any build-up of material on the lower door. You can be confident the cell volume will not change due to dust build-up resulting in erroneous weight and volume measurements.



Superior Design

Sample Strike-off

The sample strike-off is critical to controlling flow of product through the instrument. Our design minimizes debris build-up in the instrument. Grain is not sprayed throughout the interior. The AM 5200-A uses 3 brushes to direct grain to the collection drawer.

Connectivity

The AM 5200-A has configurable data output using USB or RS-232 connections. Our Plug and play functionality mimics GAC© systems output for immediate replacement into existing scale software, LIMS, etc. An optional printer is available.

Ver 3.1 2011.06.09

Aquamatic 5200 Grain Moisture Meter

The AM 5200 is Perten's second-generation high frequency moisture meter. Drawing on the experience from more than 1,000 installed units, we have designed a moisture meter improved in every aspect – accuracy, repeatability, reliability, and user interface. It can be a stand-alone moisture meter for use at terminals or can be integrated into automated testing systems.

Higher frequencies provide greater penetration of samples; the updated Unified Grain Moisture Algorithm (UGMA) provides a more accurate result regardless of temperature or crop type; the improved mechanism provides better repeatability. Together these make the AM 5200 the most accurate and repeatable moisture meter available. It can analyze grains, oilseeds, pulses, beans, lentils, seeds and more for moisture, Test Weight/Hectoliter Weight, and temperature.

Features and Benefits

Superior Accuracy: Superior accuracy and repeatability are obtained using 150 MHz measurement cell made of robust, high precision die-cast aluminum. The new cell is slightly larger providing a more representative sample.

Accurate Results on Fresh Field Samples: Older moisture meters read up to 1% low in moisture when analyzing grain straight from the field (known as the rebound effect). The higher frequency measurement employed by the AM 5200 penetrates deeper into the grain providing more accurate results and shorter return of investment.

Easy To Use: The large color touch screen with intuitive user interface makes the AM 5200 simple to use. Input sample IDs, view results on a remote screen, and update through USB memory sticks all add to its flexibility and ease of use. The touchscreen uses resistance technology and will even respond to gloved hands.

Rapid Analysis: Just pour the sample and the AM 5200 begins analysis automatically. Results are displayed in less than 10 seconds. An optional flow-through provides for automated testing when the sample can be discarded.

Modern Technology: Using higher frequency, advanced computational power, USB data transfer, and the updated UGMA, the AM 5200 is designed for today's grain trade.

USDA Certified: The USDA certified the AM 5200 as UGMA compatible and for use for official moisture measurements.

NTEP Approved: National Type Evaluation Program (NTEP) Certificate of Conformance for weighing and measuring devices - Certificate Number: 11-087. NTEP certification means the instrument has passed rigorous performance requirements

Specifications

Products: Grains, oilseeds, pulses, lentils and more
Parameters: Moisture, specific weight (hectoliter weight/test weight) and temperature
Analysis Time: ~ 10 seconds
Display: 5.7" color touch screen
Connectivity: Ethernet, USB
Measurement Technique: RF dielectric constant at 150 Mhz
Sample Temperature: -20 to 45° C / -4 to 113 F (moisture <18%); 0 to 45° C / 32 to 113 F (moisture >18%)
Sample Size: 700 ml
Power Requirement: 115/230 V, 50/60 Hz
Dimensions HxWxD (mm/inches): 415/16.3 x 424/16.7 x 353/13.9
Net Weight (kg/lb): 18.3/40.3

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