

Aquamatic 5800 Manual

Grain Moisture Meter



Robust and Reliable



Based on UGMA



Fast and Accurate



AA batteries that last up to 1 year

Portable Grain Moisture Meter

Perten
INSTRUMENTS
a PerkinElmer company

Aquamatic 5800 Manual Grain Moisture Meter

Unique among portable moisture meters, the AM 5800 Manual is based on the same high frequency 150 MHz technology and UGMA algorithm as officially approved meters, including the Perten AM 5200-A. Drawing on the experience from more than 5,000 installed moisture meters, we have designed a battery operated, portable moisture meter benefitting from the accuracy, repeatability and reliability of the AM 5200-A.

The higher frequency signal provides greater penetration of samples and the UGMA (Unified Grain Moisture Algorithm) provides a more accurate result regardless of moisture level, temperature or crop type. Together these make the AM 5800 Manual the most accurate and repeatable portable moisture meter available. It can analyze grains, oilseeds, pulses, beans, lentils, seeds and more for moisture, Test Weight/Hectoliter Weight, and temperature with the same calibrations as the officially approved AM 5200-A.

Features and Benefits

Accurate: Thanks to high frequency 150 MHz technology and the UGMA algorithm you will get accurate readings, also on grain straight from the field or the dryer. Measurements are aligned with the officially approved AM 5200-A.

Easy to use: No sample weighing or volume measurement is required. Just pour the sample to fill the hopper and pull the handle to start the analysis. The AM 5800 Manual takes care of the rest.

Repeatable: Excellent repeatability thanks to precision mechanics and advanced signal processing.

Rapid: In less than 20 seconds accurate readings for moisture, Test Weight and temperature are presented on the display.

Portable: Powered by 2 AA batteries and weighing only 5 kg / 9lb you easily bring the AM 5800 Manual to where you need it.

Smart interface: The touch screen with intuitive user interface makes the AM 5800 Manual simple to use. Input sample IDs, view results on a remote screen, and update through Bluetooth. The touchscreen uses resistance technology and will even respond to gloved hands.

Specifications

Products: Grains, oilseeds, pulses, lentils and more

Parameters: Moisture, specific weight (hectolitre weight/test weight) and temperature

Analysis Time: ~ 15 seconds

Display: 3.4" touch screen

Connectivity: Bluetooth®

Measurement Technique: RF dielectric constant at 150 MHz

Sample Temperature: -18 to 70° C / -4 to 160 F (moisture <18%); 0 to 70° C / 32 to 160 F (moisture >18%)

Sample Size: 700 ml

Power Requirement: 2 x AA Alkaline batteries

Dimensions HxWxD (mm/inches):

338/13.3 x 274/10.8 x 290/11.4

Net Weight (kg/lb): 5/11



Aquamatic 5200

Grain Moisture Meter



Whole Grains



Oilseeds



Elevators & Silos



Grain Intake

Revolutionary Grain Moisture Accuracy

Aquamatic 5200 Grain Moisture Meter

The AM 5200 is Perten's second-generation high frequency moisture meter. Drawing on experience from more than 2,000 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.

The higher frequency used penetrates deep into samples for improved results. The updated Unified Grain Moisture Algorithm (UGMA) provides a more accurate analysis regardless of temperature or crop type. The improved mechanisms provide better repeatability. Together these make the AM 5200 the most accurate and repeatable moisture meter available. It analyzes 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 a 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 on 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 stick all add to its flexibility and ease of use. The touchscreen uses resistance technology and even responds 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: 115/230V, 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

