Premier Manufacturer of Moisture Sensing Equipment for the Agricultural Industry

Electronic Moisture Testers

Grain I Hay
Coffee I Cotton
Corn I Tobacco
Soil Compaction
Wood Chip

2016 Product Guide
Moisture has the ability to cripple a whole year’s worth of harvest if it is not checked from time to time.

In fact, ignoring such a critical issue it can actually lead to –
• Additional costs if the harvested grain is wetter than is acceptable
• Loss of value for dried grain since it has to be sold for less
• Spoiling the grain if it happens to be too wet and is not stored properly

Ag-MAC™ PLUS Grain Moisture Tester with Test Weight
Part No.: 30100

Features
• Direct readout for 20 different grain scales
• Displays grain test weight (no pre-weighing)
• Measures moisture fast, easy, and accurately
• Non-compaction design with LCD display
• USB compatibility for updates of grain scales and firmware
• Automatic temperature compensation
• Hot corn up to 160° F (71° C)

Specifications
• Moisture range: 6% - 45% depending on grain tested
• Temperature range: 32° - 122° F (0° - 50° C)
• Repeatability and accuracy: ±0.2% in normal moisture range for stored grain
• Display resolution: 0.1% moisture
• 4 AA batteries included

Accessories
Carrying case – 06080
USB Cable – 06067

Heavy-duty carrying case with shoulder strap included.

Grains:

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Grain Moisture Testers – Portable

MT-PRO+ Grain Moisture Tester with Extra Features
Part No.: 05100

Features
• Direct readout for 40 different grain scales
• 2.5” LCD display with selectable large or standard size fonts
• Low battery indicator and battery saver
• Illuminated, multilingual display - English, French, German, Italian, Portuguese, Spanish and Swedish

MT-PRO+ additional features include:
• Larger LCD
• Backlit push-button interface for low light conditions
• Automatically averages selectable number of tests
• Stores averaged readings for all grains tested
• USB port for personalization (adding user name), grain scale and firmware updates and diagnostics
• If grain is above/below limit, will display what the limits are for that grain

Specifications
• Moisture range: 5% - 40% depending on grain tested
• Temperature range: 32° - 113° F (0° - 45° C)
• Repeatability and accuracy: ±0.5% in normal moisture range for stored grain
• Display resolution: 0.1% moisture
• Two 9V batteries required

Accessories
Carrying case – 06053
Replacement cap – 06061
5’ USB Cable – 06067

Grains:
Alfalfa, Barley, Beet, Buckwheat, Canary, Clover: Purple, Clover: White, Corn, Dactyl, Fescue, Flax (Linseed), Lentils, Millet, Mustard, Navy Beans, Oats, Peanuts: Spanish, Peas: Fodder, Peas: Green, Peas: Yellow, Phleum, Popcorn: White, Popcorn: Yellow, Rapeseed (Canola), Rice: Long, Rice: Medium, Rye, Rye Grass, Safflower, Sorghum (Milo), Soybeans, Sunflower, Stripe, Triticale, Wheat:

MT-PRO Grain Moisture Tester
Part No.: 08125

Features
• Direct readout for 40 different grain scales
• Tests high moisture grain up to 40 percent
• Single-point or precision multi-point calibration to match local elevator
• Built-in average button displays the average of saved test results
• Higher-frequency, capacitive circuit for greater accuracy
• Enhanced temperature compensation circuit
• Illuminated, multilingual display - English, Spanish, French, German, Italian, Portuguese and Swedish
• Includes protective carrying case with shoulder strap

Specifications
• Moisture range: 5% - 40% depending on grain tested
• Temperature range: 32° - 113° F (0° - 45° C)
• Repeatability and accuracy: ±0.5% in normal moisture range for stored grain
• Display resolution: 0.1% moisture
• Two 9V batteries required

Accessories
Carrying case – 06053
Replacement cap – 06061
Grain Moisture Testers - Portable

MT-16 Grain Moisture Tester
Part No.: 08155

Features
- Direct readout for 16 different grain scales - each scale adjustable to match local elevator
- Automatically averages up to 99 test results
- High frequency capacitive circuit with accurate temperature compensation circuit
- Used reliably by the USDA Federal Crop Insurance Field Office
- Protective carrying case with shoulder strap included

Specifications
- Moisture range: 5% - 40% depending on grain tested
- Temperature range: 32° - 113° F (0° - 45° C)
- Repeatability and accuracy: ±0.5% in normal moisture range for stored grain
- Display resolution: 0.1% moisture
- 9V battery required

Accessories
Carrying case – 06052
Replacement cap – 06061

Grains:
Corn 5-21%, Corn 17-40%, Wheat-soft, Wheat-hard, Soybeans, Sorghum, Oats, Canola, Barley, Rye, Beans Paddy Rice, Flax, Safflower, Sunflower-oilseed, Sunflower-confect, Arbitrary Scale

Additional Grains by Request:
Alfalfa, Black Pepper, Buckwheat, Cardamom, Chickpea, Faba Bean, Flaxseed (Linseed), Green Lentils, Milk Powder (4% Fat), Milk Powder (Fat Free), Milk Thistle, Millet, Mustard Seed, Peanuts, Poppy Seed, Radish, Raw Coffee, Red Fescue, Red Lentils, Rye Grass, Safflower, Seaweed, Spinach Seed, Teff, Wheat Flower, White Clover, White Lupine

GMT-GRIND Grain Moisture Tester
Part No.: 08201

Features
- Direct readout for 31 different grain scales
- Smallest sample size needed by any portable grain tester
- Individual offset adjustment by crop
- Illuminated LCD display with adjustable contrast and battery voltage indication
- Aluminum tester enclosure with accurate steel test cell
- Wire cleaning brush included to easily clean test cell
- Sturdy carrying and storage case included
- Ideal for pre-harvest decisions

* Did you know grinding is the most accurate method to test through the whole grain.

Specifications
- Temperature range: 32° - 122° F (0° - 50° C)
- Automatic average of the last four measurements
- Repeatability and accuracy: ±0.5% in normal moisture range for stored grain
- Display resolution: 0.1% moisture
- 9V battery required

Accessories
Cleaning brush – 08200
Carrying case – 08205

Grains:
Barley, Winter Barley, Wheat, Buckwheat, Oats, Rye, Triticale, Peas, Corn, Beans, Rapeseed (Canola), Sunflower, Linseed, White Mustard, Red Clover, White Clover, Ryegrass, Soybeans, Wheat Flour, Spelt, Caraway, White Rice, Paddy Rice, Meadow Grass, Red Fescue, Durum Wheat, Meadow Fescue, Timothy, Rape (Turnip), Broad Bean, Millet
1210 Silage and Grain Moisture Tester
Part No.: 01210

Features
• Tests freshly chopped and ensiled silage within 1 minute
• Digital log reading with conversion chart for common silage types
• 100 plastic bags included to keep test cell clean

Specifications
• Moisture range: silage: 30% - 75%; grain: 10% - 47%
• Repeatability: ±0.5% in normal moisture range for stored grain
• Accuracy: within 1% for grain at normal stored moisture, 2% for silage under 50% moisture, 3% for silage over 50% moisture
• 9V battery required

Accessories
100 Replacement plastic bags – 6801
Thermometer – 6977
Log cards – DOCU-C0003

Grains:
Shelled Corn, Soybeans, Peas, Wheat, Hard Wheat, Oats

Portable Grain Kit MT-PRO and Grain Weight Scale
Part No.: 09110

MT-PRO Grain Moisture Tester Specifications
• Moisture range: 5% - 40% depending on grain tested
• Temperature range: 32° - 113° F (0° - 45° C)
• Repeatability and accuracy: ±0.5% in normal moisture range for stored grain
• Display resolution: 0.1% moisture
• Two 9V batteries required

Hanging Grain Weight Scale
• 15.5 in. long
• Metric or standard weights
• Measures grain test weight (lbs. per bushel)
• Test range: 15 - 70 lbs. per bushel; 20 - 90 kg per hectoliters

Accessories
MT-PRO – 08125
MT-PRO carrying case – 06062
Grain Weight Scale – 08170

Complete kit includes:
• MT-PRO Grain Moisture Tester
• Hanging Grain Weight Scale
• Sturdy Carry and Storage Case
• Operating Instructions

The Most Cost Effective Product for Accurate Moisture and Grain Test Weight

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Hay Moisture Testers

BHT-2 Advanced Baler-Mounted Hay Moisture Tester
Part No.: 07160

Features
• Advanced multi-sensor technology for greater overall accuracy while baling hay with square or round balers
• Sturdy display module mounts in tractor cab and displays readings from sensors mounted in baler
• Averages updated and displayed every 3 seconds
• Illuminated LCD display and keypad
• ± Moisture offset adjustments
• Adjustable high/low limit of moisture reading
• Upgradable firmware and calibration curves via USB

Specifications
• Moisture range: 8% - 30+% depending on baler type
• Accurate throughout the normal range of stored hay
• Display resolution: 0.1% moisture

Product Includes
• Display module
• 10' power cable
• 2 sensor pads with hardware
• 2 - 35' sensor cables
• USB cable
• Installation instructions

Accessories
BHT-2 Sensor Pad with hardware – 06063
35' Sensor Cable – 06064
10' Power Cable – 06066
5' USB Cable – 06067
BHT-2 Sensor Pad Kit – 07161
• 2 sensor pads with hardware
• 2 - 35' sensor cables

Windrow Hay Moisture Tester
Part No.: 07140

Features
• Only portable hay moisture tester available for use in the field before baling
• Quickly measures loose hay and forage from a windrow without committing the time and expense of using baling or chopping equipment before the hay is at the correct moisture levels
• Simple to use - add loose hay to a five-gallon bucket, insert tester probe and press a button

Specifications
• Moisture range: 13% - 70% depending on hay tested
• Testing time: 30 - 60 seconds
• Accuracy: ±2% - 4%
• Display resolution: 0.1% moisture
• 9V battery required

Accessories
Dish probe only – 07253

Why is it important to test hay moisture prior to baling?
Proper moisture levels during baling is essential to produce better quality hay and reduce economic losses. Baling hay at the correct moisture levels reduces mold development, and helps to preserve the color and feed value of hay.

Testing the moisture content of hay prior to the baling process is essential to both seller and buyer. Moisture in hay is considered in three different forms, free water, physically trapped water, and bound water. The free and physically trapped water can be evaporated given proper conditions which include solar radiation, relative humidity, and time.

At the time of baling the ideal moisture level is between 18 and 22 percent. Hay baled with higher moisture percentages can foster mold, resulting in loss, and in severe cases, damage as the accompanying heat can cause spontaneous combustion. Due to its importance, testing hay for moisture content is essential to the success for both the buyer and seller.
Hay Moisture Testers

BHT-1 Baler-Mounted Hay Moisture Tester
Part No.: 07150

Testing for moisture does not end with the bale; testing occurs during and after baling. During the baling process the use of baler-mounted hay moisture testers, such as the AgraTronix BHT-1™ or BHT-2™, assures the producer that the hay is at the correct levels as it is being baled. Installation is simple and the results are displayed to the operator every two seconds or so.

Features
- Direct readout for moisture % while baling hay with square or round balers
- Sturdy display module mounts in tractor cab and displays readings from sensor pad mounted in baler
- Averages updated and displayed every 3 seconds
- Built-in calibration button
- Illuminated LCD display

Specifications
- Moisture range: 8% - 40% depending on baler type
- Accurate throughout the normal range of stored hay
- Display resolution: 0.1% moisture

Accessories
- BHT-1 Sensor Pad with hardware – 07157
- 25’ Sensor Cable – 06065
- 10’ Power Cable – 06066
- 10’ Ext. Sensor Cable – 07158
- BHT-1 Sensor Pad Kit – 07159
- Sensor pad with hardware
- 25’ sensor cable
- Mounting bracket
- 10’ power cable

DHT-1 Probe-Style Hay Moisture Tester
18” Probe – Part No.: 07100 – Best Seller
24” Probe – Part No.: 07101
32” Probe – Part No.: 07102

Features
- Direct readout for moisture % and temperature (°F and °C)
- Sturdy pistol-grip handle with extra-rugged probe shaft made from aircraft aluminum
- 3 models available: 18” (std.), 24” and 32” probe lengths

Specifications
- Moisture range: 14% - 44% depending on hay tested
- Temperature range: 32° - 225° F (0° - 107° C)
- Accurate throughout the normal range of stored, baled hay
- Display resolution: 0.1% moisture
- 9V battery required

Replacement Probes
- 18” Probe – Part No. 07018
- 24” Probe – Part No. 07024
- 32” Probe – Part No. 07032

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HT-PRO Probe-Style Hay Moisture Tester

20” Probe – Part No.: 07120
10” Probe – Part No.: 07121

**TESTING THE MOISTURE LEVELS OF STORED HAY**

After the baling process, hay is stacked and awaits sale. Testing at this stage is vital for the same reasons that stood prior to the baling process. With a hand-held electronic probe tester, such as the AgraTronix HT-PRO™ or DHT-1™, you are able to simply insert the probe into the bale and determine its moisture level. Probes come in a variety of lengths, 18”, 20”, 24”, and 32”, giving you flexibility along with reliability.

As with hay that is in process, hay that has been baled is subject to a variety of conditions and/or circumstances that can affect the test results. Bale density should be considered when testing; a tighter bale will produce higher moisture levels which will be reflected in the results. The shape, the size, and the baler being used all have an effect on the test results. For example small, rectangular bales tend to be denser toward the bottom whereas large rectangular bales tend to be densest in their upper corners.

The “sweating” process which occurs naturally, and passes, can alter the results of a moisture test as can the use of preservatives. Preservatives will become absorbed in approximately 1 to 2 days however prior to that a result that is 2 to 4 percent higher is not unheard of. Even the type of hay tested can alter the results, if your tester is calibrated for alfalfa however the hay being tested is a grass, alfalfa mix the moisture level can vary. A simple matter of including conditions into your test results will result in better hay production.

**Features**

- 10” and 20” probe lengths available
- Includes calibration clip - less than 20 seconds to calibrate
- Above and below moisture limit indication
- Illuminated LCD display

**Specifications**

- Moisture range: 8% - 44% depending on hay tested
- Temperature range: 32° - 225° F (0° - 107° C)
- Accurate throughout the normal range of stored, baled hay
- Display resolution: 0.1% moisture
- 9V battery required

**Accessories**

- Calibration clip – 07156

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Temperature Probe

59” Probe – Part No.: 07125

**Features**

- Easily measure and manage the temperature of solid materials in the field or bin on the following materials:
  - Grain
  - Loose Hay or Forage
  - Grain and Forage Silo Bags
  - Mulch
  - Wood Chip / Pellets
  - And other similar solid materials

**Specifications**

- Temperature range 5°F to 158°F (-15°C to 70°C)
- 59 Inch probe length
- Choose between Fahrenheit or Celsius
- 10 Minute automatic shut-off
Hay / Specialty Moisture Testers

Coffee Bean Moisture Tester
Part No.: 08150

Features
• Easy to operate
• Measures both green and parchment coffee beans
• Multiple sets of grain scales for customization of offsets by the operator
• Easy basic mode or advanced precision calibration mode to match local elevator table top moisture testers
• Averaging capabilities displays running average of tests
• Higher-frequency, capacitive circuit insures accuracy

Specifications
• Moisture range: green coffee - 7% - 35% parchment coffee - 8% - 38%
• Temperature range: 32° - 113° F (0° - 45° C)
• Repeatability and accuracy: ±0.5% in normal moisture range for stored grain
• Display resolution: 0.1% moisture
• Two 9V batteries required

Accessories
Carrying case – 06053
Replacement cap – 06061

Beans: Green Coffee, Parchment Coffee

Corn Stove Moisture Tester
Part No.: 08160

Features
• Easy to operate
• More accurate than scoop type testers
• Easy basic mode or advanced precision calibration mode to match local elevator table top moisture testers
• Averaging capabilities displays running average of tests
• Back light display
• Higher-frequency, capacitive circuit insures accuracy

Specifications
• Moisture range: 8% to 40% depending on grain tested
• Temperature range: 32° to 113°F (0° to 45°C)
• Repeatability & Accuracy: ± 0.5% in normal moisture range for stored grain
• Display Resolution: 0.1% moisture
• Two 9V batteries not included

Accessories
Replacement cap - Part No. 06061
Carrying case - Part No. 06053

Hay Probe Core Sampler
Part No.: 07190

Features
• Developed by farmers for farmers and recommended for the fast and convenient extraction of core samples for testing purposes
• Hay sample goes direct from-bale-to-bag with no mess or contamination from handling
• The inside diameter of the shaft is 7/8” allowing samples to stay loose for easy bagging with the cleanout rod between samplings
• Cleanout rod pushes up to 20 core samples into a 1-gallon zip-lock bag that is suspended from the protective shield
• Shaft and connections are made of stainless steel
• Sampling depth is 20”
• Sampler can be used with either a 3/8” or 1/2” drill

* Replaceable core sampler tip

COMING SOON FOR 2016

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Specialty Moisture Testers

Cotton Moisture Tester
Part No.: 07126

Features
- Automatic temperature compensation;
- Calculation of average values;
- Easy to adjust calibration;
- Clear display with large easy to see numbers
- Tester enclosure and rugged 20” probe shaft

Specifications
- Analyzed material: raw cotton (loose)
- Six calibrations for different types of loose raw cotton which differ by quality and amount of debris
- Moisture measurement range: 5.2 – 30%
- Accuracy: ±2% moisture

Accessories
Probe only – 07251

Soil Compaction Tester
Part No.: 08180

Features
- Increases crop yield by measuring the extent and depth of soil compaction
- 24” stainless steel rod with adjustable shock collar to prevent damage
- Easy-to-read, color-coded, stainless steel dial that is liquid filled to reduce shock
- Durable molded housing with rubber grips
- Large and small tip included with convenient storage in tester housing
- Easy to store on wall or above workbench

Specifications
- Penetration depth: up to 24” in 3” increments
- Green testing range (0-200 psi): good growing conditions
- Yellow testing range (200-300 psi): fair growing conditions
- Red testing range (300 psi and up): poor growing conditions
- Two tips included: 1/2” tip for firm soil, 3/4” tip for soft soil

Replacement Tips
1/2” small tip – 08181
3/4” large tip – 08182
Specialty Moisture Testers

TMT Tobacco Moisture Tester
Part No.: 08195

Features
• Measures moisture content of three types of tobacco throughout the moisture range specified by tobacco industry standards
• Direct readout in 0.1% increments
• Automatic temperature compensation
• Tester enclosure and rugged 20” probe shaft
• Calculates the average value of several measurements
• 9V battery required

Moisture Range
• Burley: 13% - 30%
• VFC: 13% - 30%
• Oriental: 10% - 20%

Accessories
Probe only – 07251

WCT-1 Wood Chip Moisture Tester
Part No.: 08190

Features
• Accurate results for wood chips, wood pellets, pellets and sawdust from chainsaw debris
• More reliable than the traditional pin method because the reading is taken throughout the wood sample and not just from the outer surface
• 9V battery required

Moisture Range
• Chainsaw wood chips/sawdust: 15% - 65%
• Wood pellets: 4% - 23%
• Normal sawdust: 6% - 30%

Accessories
Replacement cap – 06061

WCT-2 Wood Chip Moisture Tester
Part No.: 08191

Features
• Measures the moisture content from piles of logging residue when creating energy
• Developed with the help of several governmental departments around the world
• Accurate results from the following types of burning logging residue: wood chips, logging residue chips, medium-sized logging residue chips, coarse logging residue chips
• 9V battery required

Moisture Range
• Wood chips: 12% - 40%
• Logging residue/brash slash: 30% - 70%

Accessories
Dish probe only – 07253

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