



# **MAXIMIZING THE USE OF ELECTRONIC GRAIN MOISTURE TESTERS FOR GREATER PROFITS**

**AgraTronix  
Mission Statement**

We believe in providing the best possible quality products and customer service for cultivators, agriculturalists and weekend farmers. We strive to be the leading provider of hay, grain and wood moisture sensing equipment so that our customers can consistently protect their crops, harvest, horses and livestock without worrying about their investments.

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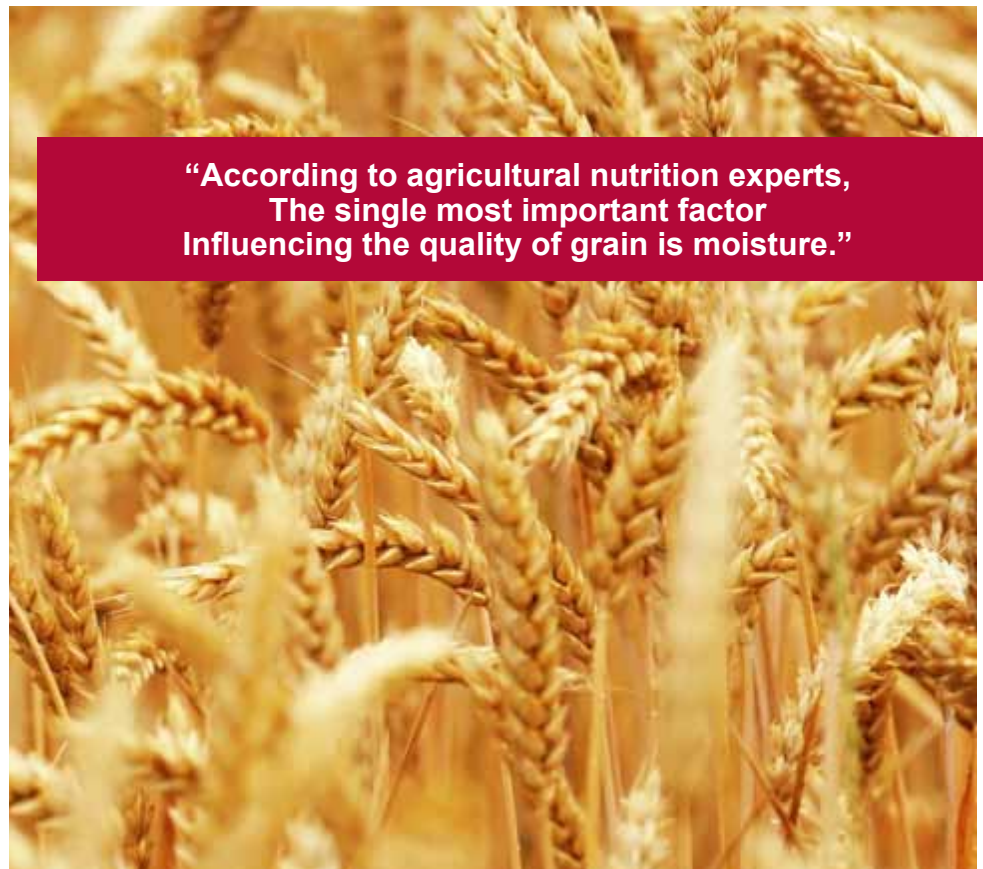
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*“Maximizing the use of Electronic Grain Moisture Testers For Greater Profits” is brought to you by AgraTronix, the worldwide industry standard for grain, hay and wood moisture testers.*

For more information about AgraTronix Moisture Testers, visit [www.AgraTronix.com](http://www.AgraTronix.com) or call customer service at 1-800-821-9542.



**Maximizing the use of Electronic Grain  
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## THE NEED FOR GRAIN MOISTURE TESTERS IN THE AGRICULTURAL INDUSTRY

### Types of Portable Grain Moisture Testers

The management of moisture content takes precedence when it comes to perishable crops like grain. In other words, state of the art equipment is necessary when it comes to getting readings that are accurate especially during the wet season.

#### 05100 MT- PRO+ Portable Grain Moisture Tester

The MT-PRO+ has a direct readout for 40 different grain scales for high moisture grain up to 40 percent. It has a 2.5" LCD display with selectable large or standard size fonts. USB port for personalization (adding user name), grain scale, firmware and diagnostic updates.



#### 08125 MT- PRO Portable Grain Moisture Tester

This particular grain tester from AgraTronix is great for nighttime tests since it comes with a backlit display. It also boasts of a multilingual display (languages vary from English, French, Spanish, German, Italian, Swedish and Portuguese) while its high frequency circuit guarantees accuracy.



This season's precious grain harvest needs to be checked for moisture content before it can be sold for a profit, as every farmer knows. 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 and needs to be dried before it can be sold.
- Loss of value for dried grain since it has to be sold for less than its marketable value.
- Spoiling the grain if it happens to be wet and is stored under low temperatures or drying bins.

Needless to say, a grain moisture tester is invaluable when it comes to preserving the value of your crop and ensuring that it sells for what it is worth.



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## 08155 MT-16 Portable Grain Moisture Tester

The MT-16 grain tester is designed for measuring 16 varieties of seeds and grains in both dried as well as the stored variety. The device is controlled by a microprocessor that requires no additional conversions for moisture readings. Its moisture range for corn is anywhere between 5 to 40% and 5 to 35% for other types of grains.



## HOW TO USE YOUR GRAIN TESTER

Before checking your grain for moisture content, first make sure that your moisture analyzer is in good working order. In other words, ensure that the battery is working, charged and ready to go. Remember, a tester with a faulty battery will show inaccurate readings. This is not something that you can afford to happen. A farmer can end up selling his grain for less than half what it was actually worth because his grain tester shows that the moisture content is through the roof. A battery that is low in power will operate no differently so make sure that you have it replaced once a year. Also make sure that you take the battery out when the device isn't in use.

Attempting to test your grain's moisture content before it has even been harvested will not give you accurate results. Therefore it is best that you sample shelled grain that has already been harvested. In order to cover a wider area, pick the grain from several plants and mix them together in a container before testing it for moisture. Make sure that you get at least three readings for an accurate estimate. Add three or four more points to the reading and you are good to go.



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**08201 GMT-GRIND Portable Grain Moisture Tester**

This grain moisture tester has a temperature range of 32 to 122°F. It also requires a very small sample for accurate grain testing purposes as well as allows for individual offset adjustments according to the crop being tested. The device also gives precise readings of grain that has not been harvested yet.



**GETTING ACCURATE READINGS WITH ELEVATOR TESTING**

If you are still not satisfied with your readings you can always compare them to your grain elevator or mill's readings. For this you will need to check your grain samples a total of three times with your grain tester for an approximate reading. Do the same with the elevator or mill tester.

Comparing samples from an elevator and portable tester is efficient since it will provide you grain samples with varying levels of moisture content. Make sure that the containers you keep the grain in before testing is sealed tight especially if you want to take the samples home and throw them back in the elevator afterwards.

Your tester needs to be checked out if both of the readings differ by more than 1.0 points. This estimate is for dry grain. The average difference for wet grain should not be more than 1.5 points. You can have your chosen grain tester analyzed by a professional service provider on an annual basis in order to ensure that it guarantees accurate readings. Your harvest (and not to mention your profit margin) depends on it. Test 5 to 10 more samples for good measure for a short term alternative.



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### 09110 Portable Grain Kit - MT-PRO with Grain Scale

Of course, you can settle for this portable grain kit if you want to go all out. The MT-PRO kit comes complete with a hanging grain weight scale, MT-PRO grain moisture tester, operating manual as well as a storage case for easy transport. The 15.5 inch long hanging grain weight scale in particular is designed to help you measure the percentage of moisture in samples of grain as well as the lbs. per bushel. It has a test range 15 to 70 lbs. per bushel and 20 to 90 kg per hectoliters.



### 01210 Silage and Grain Moisture Tester

The 1210 Silage and Grain Moisture Tester tests freshly chopped and ensiled silage within 1 minute. It has a digital log reading with conversion chart for common silage types.



## GO WITH THE FLOW

Better yet, sample the grain when it is being unloaded from a vehicle. How do you do that? Collect every 50 bushels or so of grain as it flows out and collect it in a separate bucket. When the vehicle is emptied out, mix the grain in the bucket thoroughly.

After that, take out a specific amount for the moisture test. Remember, it is important that you mix the grain before scooping out a sample to be tested. The moisture content might differ throughout.

In other words, taking off a few inches off the top without mixing it will not give you precise readings. If you plan on testing the sample later, make sure that you cover the container.

## GETTING ACCURATE READINGS THROUGH ELEVATOR TESTING

If you are still not sure about the readings, you can always compare them with the readings from your elevator's tester.



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**Northeast Ohio  
Business, An Industry  
Leader Since 1975**

AgraTronix has been a leader in the electronic moisture sensing instrumentation industry for more than 37 years. They are renowned as the worldwide industry standard for Grain, Hay & Wood Moisture Testers. Always incorporating the latest technology, AgraTronix offers a wide range of high-quality, competitively priced products with specifications to meet the everyday farmer's needs. They have built a reputation of quality, reliability, service and state-of-the-art technology. They private label their moisture meters for several major tractor, combine and baler companies across the globe. AgraTronix Grain, Hay and Wood Moisture Meters are designed and assembled in the U.S.A. and used reliably by farmers around the world.



**A WORD TO THE WISE**

Grain testers might be convenient but that is no reason for you to ignore the user manuals that they come with. Give special attention to your chosen device's temperature compensation. The temperature of your grain can affect the readings on the moisture tester. There are some testers that will adjust the temperature for you. However, there are also some that will either require you to adjust temperature compensation readings manually or measure the temperature of the grain yourself.

Grain that is stored in either hot or cold temperatures will not give you accurate readings. For example, testing grain that is being dried is a bad idea. Electronic testers cannot accurately measure the moisture content of grain that is being rapidly heated or rapidly cooled. The fact that grain loses a lot of its moisture while it cools is another reason why you should let it rest in a container before using the device to measure moisture content. Changing moisture levels is also why the same sample of grain should be measured more than three times until you come up with a satisfactory average estimate.

Don't let a few drops of moisture ruin all of your hard work. Farmers need ample time to prepare their crop before sending it to be sold. A grain moisture tester can help you save your harvest and ensure that it sells for what it is actually worth. For more information about the AgraTronix brand of grain, hay and wood moisture testers, visit [www.AgraTronix.com](http://www.AgraTronix.com).



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