

FarmTRX™

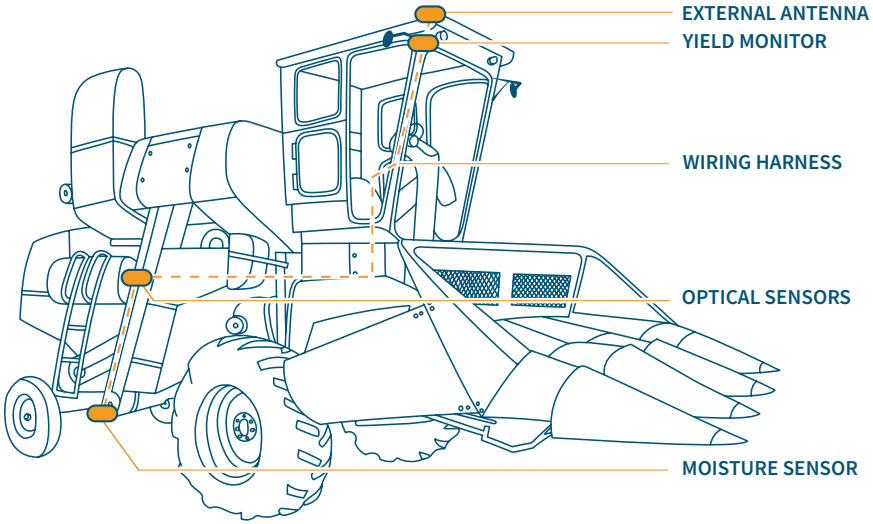
Moisture Sensor

Quick Start Guide

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System Overview



Congratulations on your purchase of the Moisture Sensor! The sensor connects to the FarmTRX Yield Monitor and installs at the base of a traditional clean grain elevator.

The Moisture Sensor provides live and average grain moisture readings displayed through the FarmTRX Mobile App.

How It Works

Install: The Moisture Sensor is installed in the lower hatch door of the combine clean grain elevator, using basic tools.

Monitor: On-the-go and average grain moisture is recorded by the sensor and displayed through the Mobile App.

Review: Moisture data is synced to the Web App and Trend of Moisture Maps are generated for every field.

Register Your Web App Account

If you have not yet registered for a Web App account, you will need to do so to view and export your yield data and maps.

Register for your Web App account at web.farmtrx.app.

If your farm is located in Europe or Africa, register at eu.farmtrx.app.

Installation Resources

The Moisture Sensor will install at the bottom of the clean grain elevator on the hatch door. Find detailed installation instructions in the Moisture Sensor Installation Guide at farmtrx.com/documentation.

Components

1. Moisture Sensor
   - Sensor
   - Stainless Steel Flange
   - Enclosure
2. Paper Cutting Template
3. 65 mm (2-9/16”) Hole-Saw
4. Mounting Hardware
   - 6-32 Flat Head Screw (6)
   - 6-32 Locknut with Spring-Lock Washer (6)
   - 6-32 Nylon Insert Locknut (6)
   - #6 Washers (6)

1.

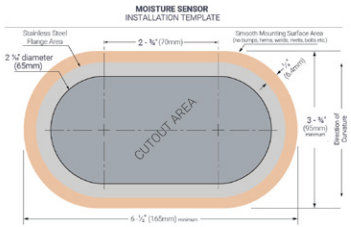


Sensor Enclosure



Sensor Face

2.



3.



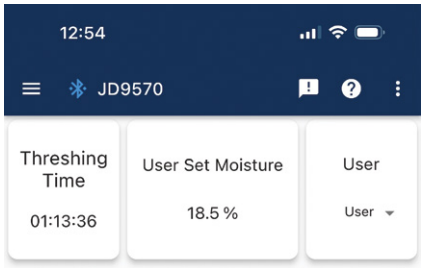
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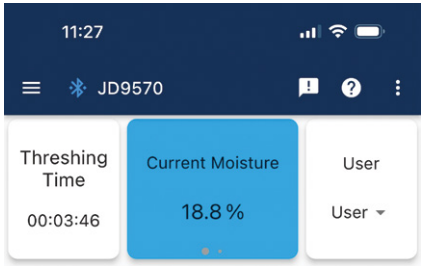
Overview of Use

1. After installing the Moisture Sensor and plugging it into the Yield Monitor Interconnect Harness, connect your mobile device to the Yield Monitor via Bluetooth® through the FarmTRX Harvest App.

   The Moisture Tile on the Live Harvesting screen will turn blue and display moisture readings while harvesting.

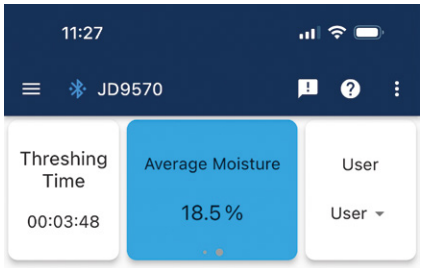


Manually Set Moisture



Current Moisture Readings

2. Swipe the Moisture Tile from the right to left to change the display to Average Moisture. Average Moisture represents the moisture values over your current running totals.



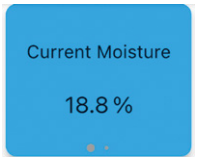
Average Moisture

Moisture Sensor Calibration

To calibrate the Moisture Sensor you will need to input an average moisture from a representative, harvested sample.

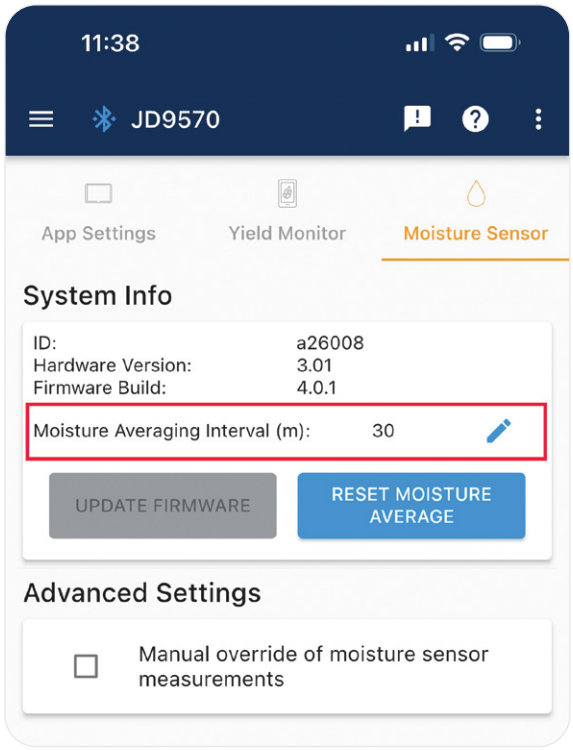
There are two ways to calibrate in the Mobile App:

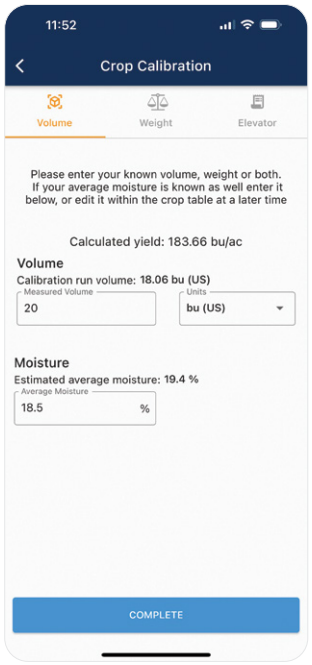
3. Long-press (hold for 2 seconds) the Moisture Tile on the Live Harvesting Screen:

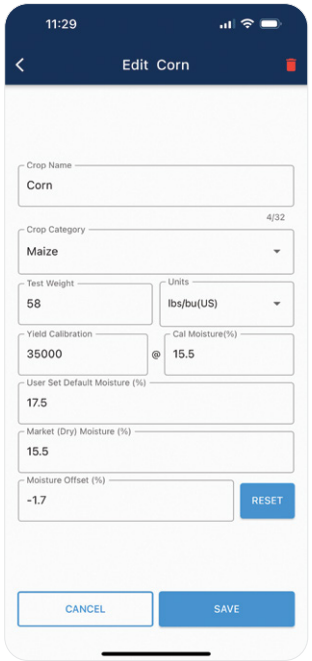


The App will display the average moisture from your trailing 30 minutes of harvesting. Measure the grain sample independently and enter the measured moisture. The App will automatically calculate the moisture offset for that crop type. Press *COMPLETE* to save.

By default, the Moisture Sensor uses a trailing 30-minute average. The time interval can be changed under the Advanced Settings page of the Mobile App.







4. You can also calibrate the Moisture Sensor while performing a Crop Calibration. Each of the three yield calibration methods allow you to enter the actual average moisture from that calibration run. This will update the Moisture Sensor offset.

If you want to manually adjust the Moisture Sensor offset, you can do so in the Add/Edit Crops page of the Mobile App. Select a crop to edit and enter a custom moisture offset.

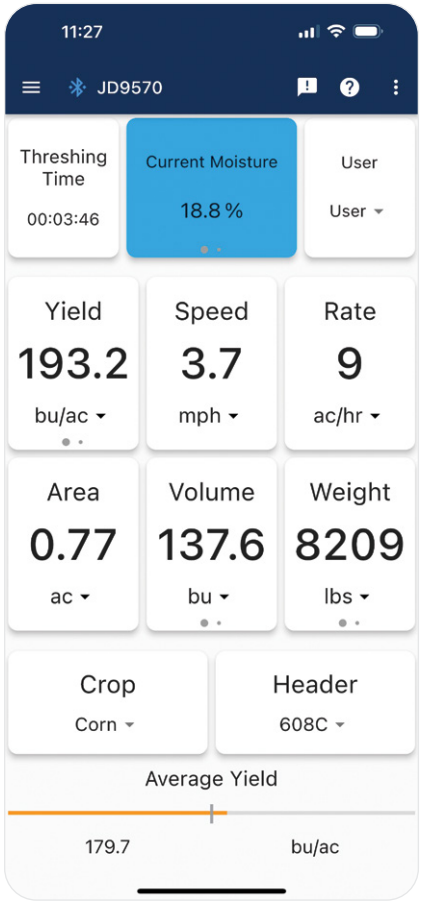
Note:

For best results, calibrations should be completed in sections of the field that provide a good representation of the crop.

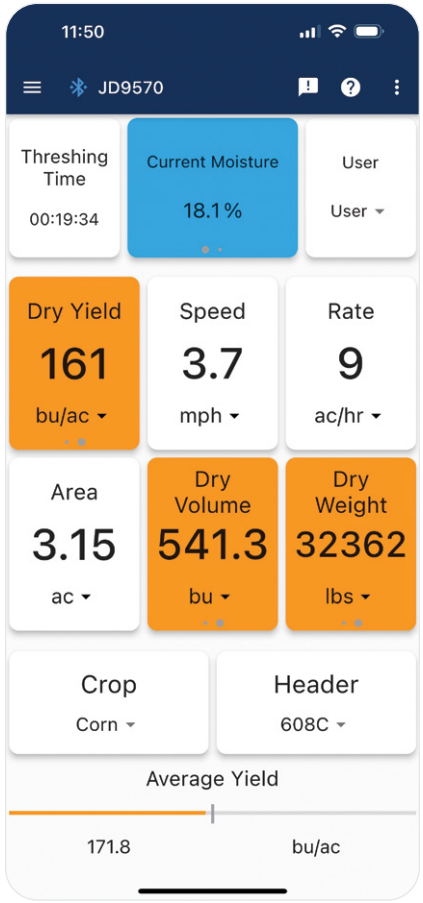
Avoid areas with heavy weeds and significantly lower yields.

Viewing Dry Yield

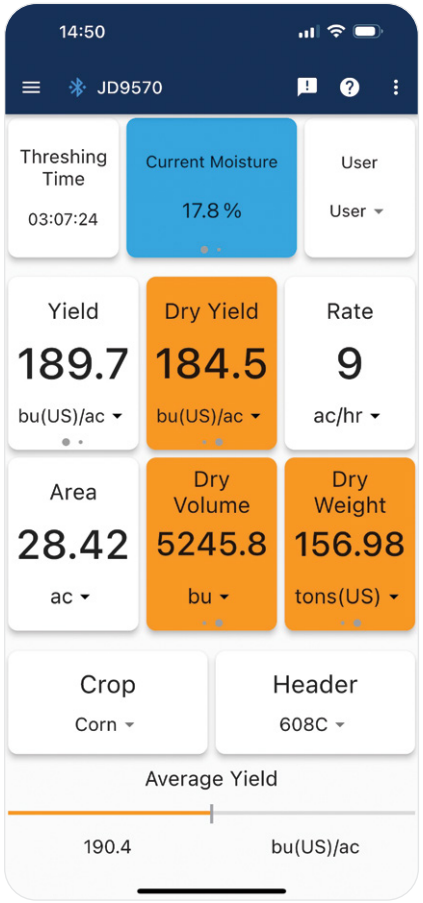
View the effect of moisture on yield by swiping the Yield tile left or right to view wet (as harvested) vs dry (market) values.



Wet
Yield/Volume/Weight



Dry
Yield/Volume/Weight



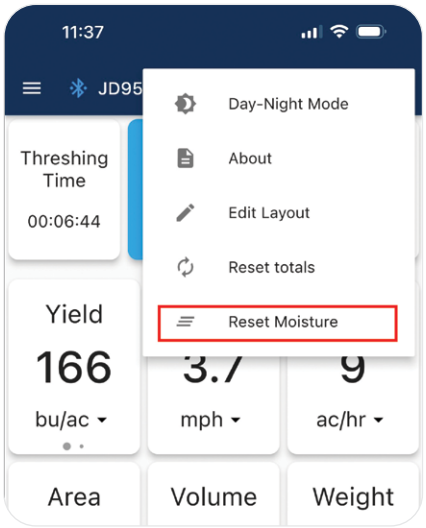
To view wet and dry yield at the same time, long-press one of the tiles and switch to a second “Yield” tile. Swipe the second “Yield” tile to the right to show dry yield.

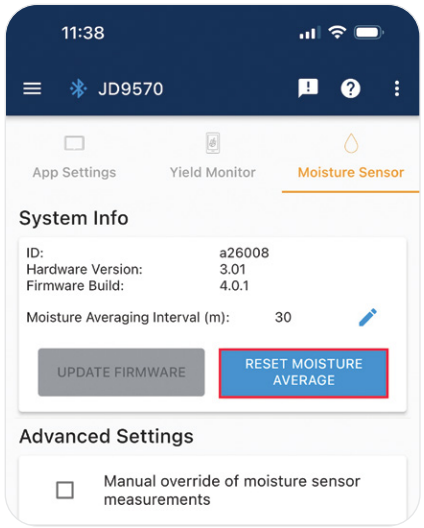
Additional Information

- The Moisture Sensor detects when the sensor face is obscured by buildup. This can happen in fields with immature crops, wet/muddy fields and with improper combine settings. The Mobile App will generate a warning notification of invalid moisture readings and the tile will display the user-set moisture with a yellow border until the residue is cleared by the elevator paddles.
- If a Moisture Sensor calibration was completed while the sensor face was obscured by buildup, the sensor will be out of calibration once the buildup is cleared. Reset the moisture calibration in one of the two following ways:
  - Select the three-dot menu from the Live Harvesting screen of the Mobile App. Press “Reset Moisture”. This will reset the moisture offset to zero and clear the trailing average.

  OR

  - Navigate to Advanced Settings, select the Moisture Sensor tab and press “Reset Moisture”.





For further support, questions, or concerns please contact support@farmtrx.com

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www.farmtrx.com