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Delmhorst®
INSTRUMENT CO
WHEN ACCURACY IS THE POINT.®

Owner's Manual FX-20 & FX-30

Rev 3 - May 2024

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Contents

1. Introduction

Thank you for purchasing the new FX-20 (hay) or FX-30 (multi-use) moisture meter, the latest in Delmhorst's legacy "F-series" moisture meters and part of the new Navigator™ family of meters. Delmhorst F-series meters are known to agriculture producers worldwide for their unmatched reliability and ease of use.

The FX-20 and FX-30 meter are the ideal tool for producers and quality control technicians and offers the latest in features and functionality. It is packaged in a robust and ergonomically designed ABS case (patent pending) to provide a premium, tactile feel, and intuitive user interface with dashboard-like display.

Together with the new Delmhorst *EDGE®* app (FX-30), users can customize meter settings and share MC data or graphs from any location quickly and accurately.

The FX meters carry a two-year limited warranty. REGISTER YOUR METER by using the QR code on the back of the meter to receive an additional three month's warranty.

We recommend that you read the following pages in detail to take full advantage of all the FX-20 and FX-30 have to offer.

Should you need assistance at any time, please contact us.

2. Safety

Sharp Measurement Prods and Electrodes: The prods and electrodes are very sharp as they are intended to penetrate through dense bales and hard materials. Keep the electrode(s) in the carrying case when not in use to avoid unintentional injury.

Meter Calibration: Meters are factory-calibrated prior to shipment. Calibration should be checked before performing a job (using the internal Cal Check feature or external Delmhorst MCS calibration standard) to ensure the meter is working correctly and is electrically accurate.

Proper Use: When used properly, the FX-20 and FX-30 meters can help users make informed decisions on the moisture levels of the materials under test at the various stages of production. A moisture meter is a secondary method of determining moisture content, and users should be aware of other potential influences on the accuracy of conductance meter readings.

3. Meter Features

Figure 1: Meter components

1. Display – Easy to read, backlit LCD display.

2. Read Button – When in live reading mode, press this button to hold a reading. When in any other mode, press this button to enter live reading mode.

3. Navigation Buttons – Use the up/down/left/right buttons to navigate through the meter's display. Use the center button to confirm a selection.

4. Easy Grip Handle – The handle is contoured to provide a comfortable grip for right or left-handed users. This shape also allows for increased leverage when pushing the meter into hard materials. The battery door is located on the rear of the handle.

5. LEDs - The LEDs are a visual aid to help quickly determine the moisture level that each reading indicates. Readings that activate the green light indicate a sufficiently dry moisture level, those that activate the yellow light indicate a borderline situation, and those that activate the red light indicate material that is wet. Specific applications require different MC thresholds. The Delmhorst *EDGE*® app enables users to adjust these thresholds accordingly.

   The default LED thresholds are as follows:

   Hay

   Green: 6.0 % to 15.9%

   Yellow: 16.0% to 18.9%

   Red: ≥19.0%

   Hemp

   Green: 6.0 % to 7.9%

   Yellow: 8.0 % to 9.9%

   Red: ≥10.0%

   Hops

   Green: 7.0% to 9.9%

   Yellow: 10.0% to 11.9%

   Red: ≥12%

   Tobacco

   Green: 8.0% to 16.9%

Yellow: 17.0% to 19.9%

Red: ≥20%

Brazil Nuts

Green: 6% to 11.9%

Yellow: 12.0% to 14.9%

Red: ≥15%

Dates/Dried Fruit

Green: 6% - 11.9%

Yellow: 12% - 14.9%

Red: 15% - 25%

6. Ambient Light Sensor – When the backlight is set to Auto, the ambient light sensor will trigger the backlight to turn on or off (to the brightness level set by the user) according to ambient lighting conditions.

7. Electrode Connector – Connect any external special application Delmhorst electrode. Refer to our website or the common prods and electrodes for the materials in the meter.

4. Menu Features

The Delmhorst FX meters have three operating modes: **Read, Set, and Stats**. The currently selected menu is marked with an underline. To change the menu, press the up button until the menu underline is blinking. Then use the left and right buttons to switch between menus. Use the down or center button to enter the menu. When a line on the display (Material, Set Point, or Material Temp) is bracketed by the solid black left and right arrows, it is "active", and that selection can be changed by pressing either the left or right key.

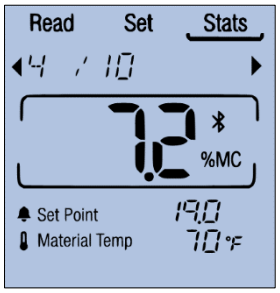
Read	Set	Stats
		
• Change species/ material type • Take readings • Change set point • Change material temperature	• Cal check • Bluetooth® (FX-30) • Temperature unit • Off Timer • Backlight ON/OFF/AUTO • Backlight brightness • Screen contrast	• Total readings • Average value • Highest value • Lowest value • Standard deviation • View data • Erase all reading data

Table 1: Menu Features

5. Read Menu

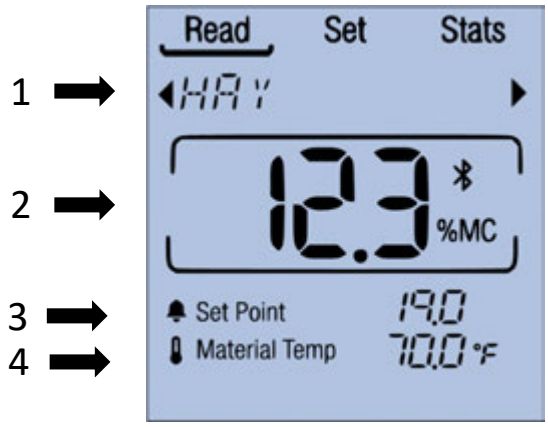


Figure 2: Read screen components

1. Material Selection

Info: The FX-20 meter is calibrated for Hay only

The FX-30 meter features calibrations for the following materials:

- Hay
- Hemp
- Hops
- Tobacco
- Brazil Nuts
- Dates/Dried Fruit

Any unwanted material can be removed from the meter via the *EDGE®* app.

Use: Select the Read menu. While the underline flashes, press the down button to enter the material selection field. Press the left or right buttons to scroll through available materials. Any changes to the material selection field will NOT be saved until the center button

is pressed to confirm. When the material is changed, the user will be asked if they want to erase the data in the meter. Selecting NO will return the user to the original material and keep all readings. Selecting YES will delete all saved readings within the meter and change the material. If connected to the *EDGE®* app, users will be prompted to export readings before they are deleted from the app. Please see Delmhorst *EDGE®* App User Guide for further instructions regarding exporting readings and changing the available material corrections in the FX-30.

2. Live Reading Area

Info: The live reading area displays the corrected moisture value of the selected material, corrected for the Material Temperature (3). (see Figure 2 above).

Indicated readings with a less than (<) or greater than (>) sign are considered out of range. Out of range readings can be saved to memory and exported but will not be used in statistical calculations.

Use: Use the navigation buttons to move to the live reading area (entry will be confirmed when a live reading appears on screen). Tip: If a live reading is not currently being displayed, pressing the Read button will navigate to the live reading area.

Take a Reading: Attach the appropriate electrode to the meter and initiate contact with the material being tested. (see Application section below) The moisture content of the material will appear in the live reading area.

Hold a Reading: Press the Read button to hold the reading on screen. HOLD will appear in the material selection line and the meter will beep. A held reading can be saved, if desired (see

below). Saving a reading or pressing the Read button a second time will return the meter to live reading mode.

Save a Reading: Press the Center button to save a live or held reading. This will store the reading, material temperature, and pin correction type to meter memory. A 'Saved' message will appear followed by the memory slot which the reading occupies (ex. HAY 2/100). This message can be bypassed by pressing the Read button.

Memory: There are 100 memory slots available in the meter. As readings are saved, the memory slots will fill in order from lowest (1) to highest (100). After 100 readings are stored, newly saved readings will replace the oldest stored readings. Unlimited number of readings may be saved when connected to the app (FX-30).

3. Set Point

Info: The Set Point is the user-selectable moisture level at which the alarm will sound. This feature allows users to take readings without having to review each one individually, helping to quickly identify high moisture areas.

Use: When active, press the left and right buttons to adjust the Set Point down or up. Holding the left or right buttons will cause the Set Point to change more rapidly.

The Set Point alarm can be turned off by adjusting the set point value to zero (--.-).

When changing the active material of the meter, the Set Point will reset to the default values for the new material, with one exception.

If the Set Point has been turned off (--.-), it will remain off for the new material.

4. Material Temperature

Info: The FX-30 temperature compensation function is based on HAY and can be used as a guideline for the other materials in the meter.

The meter has been calibrated at 80°F on various samples of different types of hay, mostly alfalfa, and on different cuttings and mixtures. The higher the temperature of the sample, the higher the meter readings will be. Temperatures lower than 80°F cause lower meter readings. The correction is approximately 1% point for every 20° difference.

For best accuracy, it is important to use the temperature correction in the meter, especially when working in extreme environments (outside 50-90°F or 10-32°C) and environments subject to temperature variation.

Use: When active, press the left and right buttons to adjust the Material Temperature down or up. Holding the left or right buttons will cause the temperature to change more rapidly.

6. Set Menu

Figure 3: Set screen components

1. Setting Selection

The setting selection area will display all settings in a scrollable list. Each setting is listed and explained in Table 2 below. Press the left and right buttons to view settings. After locating the desired setting, press the down or center button to enter the setting state. Then press the Read button to enter the live reading screen.

2. Bluetooth® Indicator

The FX-30 is equipped with Bluetooth® technology, allowing users to connect their meter(s) to a mobile device (smartphone or tablet). The Bluetooth® icon is visible on all meter screens when turned on. Please refer to the Delmhorst *EDGE®* App User Guide for more information.

Setting	Description
Cal Check	• Allows users to check the electrical calibration of the meter • A value between 11.8 and 12.2 means the meter is in calibration • A value of <11.8 or >12.2 means the meter is out of calibration – change the batteries (2 x AA)
Bluetooth®	• When Bluetooth® is on but not connected, the Bluetooth® symbol will be on screen and flashing • When Bluetooth® is on and connected, the Bluetooth® symbol will be on screen and solid • When Bluetooth® is off, no symbol will be visible on screen • *Factory default is off*
Temperature Unit	• Changes the temperature unit between Fahrenheit and Celsius • *Factory default is Fahrenheit*
Off Timer	• Choose 1, 4, or 10-minute screen off timer • *Factory default is 1 minute* • Manually turn the meter off by depressing the center button until screen goes blank – approx. 3s
Backlight	• Turn backlight ON to enable, and OFF to disable • Turn the backlight ON when in low ambient light, and OFF when in bright ambient light • When set to AUTO, meter will automatically enable and disable backlight according to ambient light • *Factory default is off*
Brightness	• Adjust backlight brightness from 1 (low) to 10 (high) • The selected brightness level will be used whenever backlight is enabled (ON or AUTO) • *Factory default is brightness level 2*
Contrast	• Adjust the contrast level of the screen from 1 (low) to 10 (high) • *Factory default is contrast level 5*

Table 2: Settings options

7. Stats Menu

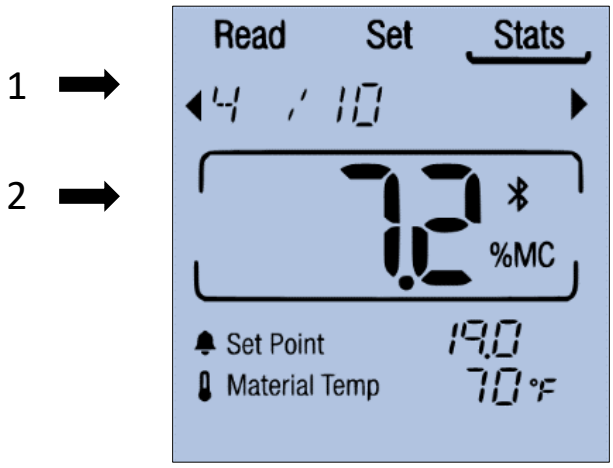


Figure 4: Stats screen components

1. Stats Selection

The stats selection area will display all statistics in a scrollable list (see Table 3 below). Press the left and right buttons to view statistics.

2. Stats Details

Statistics are calculated from the list of saved readings in meter memory, and only readings taken within the valid measurement range of the selected material are used for the calculations. Out of range readings will not be included in statistical calculations for average and standard deviation.

The meter provides statistics (average, high, low, standard deviation) for the readings that are currently stored in the meter. Note: The statistics in the meter are calculated without any out of range readings.

The stats details section can only be selected for the 'View Data' and 'Erase Data' options. For these two cases, press the down or center buttons to enter the stats details box from the stats selection. Use the left and right buttons to scroll the list of latest readings or select the desired option for clearing readings. For all other statistics, stats details will simply reflect the details of the above statistic and cannot be selected.

Table 3: Available Stats

Statistic	Description
Readings	• Displays the total number of readings stored in the meter
Average	• Displays the average value of the saved readings.
High	• Displays the highest value of the saved readings.
Low	• Displays the lowest value of the saved readings.
Standard Deviation	• Displays the standard deviation of the saved readings.
View Data	• Displays a list of all saved readings with the %MC and temperature.
Erase Data	• Clears all saved readings and statistics from the meter.

8. Delmhorst *EDGE®* App Features

The Delmhorst ***EDGE®*** app expands upon many features found within the FX-30. These features include:

1. Timestamp and geotag for each reading.
2. Export full data sets or selected readings from meter to app to be viewed on a single page and further analyzed.
3. Exclude extraneous readings from Statistics calculations.
4. View a customizable plot of all readings.
5. Export readings from app to spreadsheet for long term storage and analysis.
6. Change the species/materials available in the FX-30 meter.
7. Adjust the moisture values at which the LEDs change colors.
8. Upgrade meter firmware.

Please refer to the Delmhorst ***EDGE®*** App User Guide for more details on how to connect the meter to the app and a detailed explanation of the features mentioned above.

9. Specifications and Operating Conditions

Temperature Compensation Range: (not operating temperature)

0-255 °F / -18-124 °C

Reading Range

Hay: 6%-40%

Hemp: 7%-34%

Hops: 8%-23%

Tobacco: 8%-37%

Brazil Nuts: 6%-25%

Dates /Dried Fruit: 6%-25%

Power

2x AA Alkaline Batteries

Battery life while using the meter in reading mode and active LED's is estimated at 125-150 hours. A combination of alarm, backlight and Bluetooth® will reduce expected life to a minimum of 35 hours. A "LOW BATT" warning will appear on screen when the meter is woken up if battery voltage is below 1.75V. At this level the meter has 1-2 hours of life depending on the functions being used. The same alert is sounded and displayed every 5 minutes. Continued use with a low battery may cause your meter to go out of calibration. TIP: Extend battery life by turning Bluetooth® off in the meter when not in use, setting the backlight brightness low, and using shorter timeout settings.

Size

8.03in x 2.85in x 1.60in (20.40cm x 7.24cm x 4.06cm)

Weight (Meter Only)

7.7oz (218gm)

Regulations/Compliance

CE, RoHS, REACH, WEEE

Disposal of your Meter

Figure 5: WEEE symbol – crossed out wheeled bin

For private households: Information on Disposal for Users of WEEE

This symbol (figure 5) on the product(s) and / or accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery, and recycling, please take this product(s) to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For professional users in the European Union

If you wish to discard electrical and electronic equipment (EEE), please contact your dealer or supplier for further information.

For disposal in countries outside of the European Union

This symbol is only valid in the European Union (EU). If you wish to discard this product, please contact your local authorities or dealer, and ask for the correct method of disposal.

10. Meter Care, Service and Warranty

Care for your Meter

To keep your meter in good working order:

- Store your meter in a clean, dry place. The optional protective carrying case provided is an ideal storage place when the meter is not in use.

- Change the AA batteries as needed. Continued use with a low battery may cause the meter to go out of calibration. Remove the batteries if the meter will not be used for one month or longer.

- Clean the meter and electrode with any biodegradable cleaner. Use the cleaner sparingly and on external parts only. Keep cleaner out of the external connector.

Service Your Meter

If your meter is not working properly, replace the batteries and check the calibration. If you require further assistance, please call.

Limited Warranty

Delmhorst Instrument Co. 51 Indian Lane East, Towaco, NJ 07082, referred to hereafter as Delmhorst, guarantees its FX series moisture meters against defects in material or workmanship for two years from date of purchase. Optional electrodes are guaranteed for 90 days. See the owner's manual or Delmhorst website for warranty

period on your specific product. If, within the warranty period of the product, you find any defect in material or workmanship, return the meter to Delmhorst or an authorized reseller, using the return form. Shipping charges to return the product are the customer's responsibility.

This warranty does not cover abuse, misuse, damage during shipment, improper service, unauthorized or unreasonable use of the meter or electrodes. This warranty does not cover normal wear and tear, batteries, or pins. If the meter or electrode have been altered or tampered with, the warranty shall be void. DELMHORST RESERVES THE RIGHT TO REPAIR OR REPLACE THE PRODUCT AT ITS SOLE DISCRETION.

Delmhorst shall not be liable for incidental or consequential damages for the breach of any express or implied warranty with respect to this product or its calibration. The meter should stay in calibration indefinitely with proper care and maintenance. Follow the manufacture's guidelines in the owner's manual.

UNDER NO CIRCUMSTANCES SHALL DELMHORST BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY TYPE WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR DOWNTIME ARISING OUT OF OR RELATED IN ANY RESPECT TO ITS METERS OR ELECTRODES AND NO OTHER WARRANTY, WRITTEN, ORAL OR IMPLIED APPLIES. DELMHORST SHALL IN NO EVENT BE LIABLE FOR ANY BREACH OF WARRANTY OR DEFECT IN THIS PRODUCT THAT EXCEEDS THE AMOUNT OF PURCHASE OF THIS PRODUCT.

The express warranty set forth above constitutes the entire warranty with respect to Delmhorst meters and electrodes and no other warranty, written, oral, or implied applies. This warranty is personal to the customer purchasing the product either from Delmhorst directly or through an authorized reseller. Purchases through unauthorized resellers, including but not limited to unauthorized e-commerce resellers, are not covered by this warranty, to the extent permitted by law.

This warranty extends to the original owner only and is not transferable.

11. Appendix

Testing Baled Hay

Test

- Connect the bale prod to the connector on the top of the meter.
- Insert the bale prod into the bale.
- Press the read key. The meter displays the %MC for two seconds.

Notes

- The bale prod is electrically insulated, except at the metal points near the tip. The moisture content measured represents the hay in contact with the tip of the prod only.
- Partially cured hay may have wide variations in moisture content throughout the bale. Readings should be taken in several different parts of the bale and the highest readings used as a guideline. The arrangement and compaction of hay fibers in a bale may influence meter readings.
- If you are testing high density bales, we recommend using the H-4 handle with the 830-2 10" prod, 830-3 18" prod, or the 830-4 36" prod. Using the handle/prod combination eliminates stress on the instrument case that may occur when trying to insert the prod into a high density or large bale.
- When using the 36" prod, be sure to guide the prod into the bale with one hand while pushing on the H-4 handle

Testing Hay in the Windrow

Test 1

- Attach the #831 short pin prod to the H-4 handle and connect the handle to the external connector on top of the meter.
- Prepare a representative sample by collecting hay from various parts of the windrow.
- Place hay in a non-conductive container (such as a 5 or 10 gallon plastic pail) and apply the short pin prod to the hay.
- Press the read button and take a reading.
- Mix the sample once again and take at least two more readings. Use the highest readings.

Notes

- Repeat the steps above if considerable variations are found in the meter readings. To reduce these variations, chop the hay, mix it thoroughly and take several readings by following the procedures above. This will make the moisture distribution in the sample more uniform.

Test 2

- Attach the #831 short pin prod to the H-4 handle and connect the handle to the connector on top of the meter.
- Apply the prod to the hay in the windrow.
- Press the read button and take a reading.
- Make several tests on the hay exposed to the sun, then turn the windrow over and make an equal number of tests on the hay that had been closer to the ground. Use the highest readings.

Notes

- Make sure that the points of the electrode are not touching the ground. The electrode points should contact the hay only.

Test 3

- Select up to five large, slower-drying stems from a section of the windrow.
- Place them one at a time across two adjacent points on the #831 short pin prod.
- The average of these stem readings should be about two to five points higher than the actual moisture content.

Notes

- Repeat these steps in different parts of the field and pay special attention to the areas where the hay is heaviest.
- The amount of variation found among windrow readings as well as the average stem moisture should be taken into consideration before the decision is made to start baling

Factors Affecting Your Readings

Because of the many variables that affect the electrical meter readings, the indicated moisture content should not be used as an absolute quantitative measurement. Meter readings are very useful guidelines for the safe storability of hay. Meter readings become more significant when they are considered in the light of the density of the bales, anticipated handling and storage, and prevailing climate conditions.

Range of Moisture Content

The FX-20 and FX-30 are designed to test moisture in hay over a range of 6%-40%. Readings over 30% should be used only as a qualitative indication of high moisture content. Delmhorst moisture meters use the relationship existing between electrical conductivity and moisture content in hay. As moisture content increases, so does the conductivity. Tests on hay at high moisture content, over 25%, are less accurate. This is mostly due to the variability in moisture distribution. The reduced level of

accuracy in the high range does not significantly affect the usefulness of the meter, as a few high readings indicate that some action be taken to dry the hay to avoid spoilage or even self-combustion. While it is important to note the average of several readings, it is even more important to note the high readings and the frequency at which they occur.

Curing

Before proper curing has taken place, wide variations in moisture content should be expected in both recently baled hay and hay laying in the field, or windrow. These variations will be exposed by meter readings taken on different parts of the windrow or bale. The higher the moisture range, the wider the variations. The more curing has been allowed to take place, the greater uniformity in moisture distribution can be expected. The validity of the meter readings is closely related to the care spent in sampling the hay to be tested. Whether hay in the windrow or baled hay is tested, the number of tests made should be increased whenever the initial readings show considerable variations.

Density

The calibration of the moisture testers applies to bales of normal "average" density. Generally:

- Denser bales may yield readings 1-2% higher than actual moisture content.
- Looser bales tend to yield 1-2% lower than actual moisture content.
- Tests in stacks usually yield readings 2%-3% lower than actual moisture content.
- Tests on grass hay may yield readings about 3% lower than actual moisture content.

When testing baled hay, drive the prod across the slices of the bale, not between them. This will ensure firmer and more uniform contact.

Use of Preservatives

Hay preservative or stabilizers may also influence meter readings. Normally a bale of hay treated with preservative will read higher than a bale of the same hay that had not been treated. The readings typically increase by 2-4%, and 24-48 hours after treatment, the readings between the bales tend to equalize.

Occasional higher readings may occur if, in addition to the effect of the increased conductivity due to the stabilizer, the bales tested also show an increase in temperature and "sweating." As the stabilizer becomes more thoroughly absorbed and the sweating subsides, the meter readings recede to the initial level and will continue to decrease, if the bale becomes progressively dryer.

Sample Size

When testing baled hay, it is essential to take readings at several different points in the bale. Hay moisture may vary a great deal in the same bale. For example, at one point bale moisture may be 20% and at another over 35%. More tests must be made whenever the variations among readings are greater. If there is a possibility of high moisture areas, samples from these locations should be taken. Areas of high moisture content will spoil, resulting in loss. It is extremely important to note the high readings and the frequency at which they occur.

Testing Hemp

The FX-30 meter hemp calibration was developed on hemp flower samples using the H-4 handle with 831 short pin prod. Using the 831, 830-2 coax prod, or the 22-E electrode enables you to easily check moisture levels at

various stages of production and storage to ensure quality and safe storage.

To check the %MC connect the 831 or 830-2 (10in) or 830-3 (18in) prod to the H-4 handle. Connect the H-4 to the input connector on top of the meter. Place the material in a small bucket and push the prod into the material, making firm positive contact. Read the moisture content on the meter scale. An optional electrode (22-E) with two 1/2in pins is also available for tests on individual stems or small volume product.

Testing Hops

The FX-30 meter enables you to easily check moisture levels in loose and baled hops to assure quality and safe storage.

To check the %MC of bales connect the 830-2 (10in) or 830-5 (12in) prod to the H-4 handle. Connect the H-4 to the input connector on top of the meter. Force the probe into the bale and read the moisture content on the meter scale. An optional electrode (30-E/C) with two 9-1/2in insulated pins is also available for bales.

The optional 37-E/C multi-pin electrode or 831 pin prod (requires H-4 handle) are available for loose hops. (see below)

ABOUT YOUR HOPS READINGS

Electrical meter readings provide very useful guidelines to the producer when targeting the 8%-12% MC range for safe packaging and storage. The meter indicates the moisture level in the hops that is in contact with the un-insulated tip portion of the prod. Since moisture distribution usually varies in baled hops, an average of several tests will give greater validity to the data collected. It is important to pay particular attention to any high readings and the frequency at which they occur. Keep in mind that a few wet spots in the bale may cause considerable damage.

In an effort to minimize the effect of variability of moisture and possibly improve meter accuracy, it may be desirable to grind material and take readings on smaller samples. Use an ordinary household food chopper to grind and then stir cone petals and strigs for testing in a small container or bucket. The no. 831 short pin prod (with H-4 handle) or the 37-E/C multi-pin electrode can be used for this purpose.

Meter readings are affected by the temperature of the hops. The original calibration of the meter was developed on hops at a temperature of 80°F. Higher temperatures result in higher meter readings than actual MC; lower temperatures result in lower meter readings. Refer to section 4 – Material Temperature – in this manual for information on using the internal temperature compensation.

Testing Tobacco

The FX-30 is an essential tool in monitoring the moisture of tobacco at the various stages of harvest, housing, curing and production. The calibration was developed primarily on Burley tobacco (8%-37% MC).

The quality of most varieties is impacted by the moisture and temperature conditions during curing. Too high moisture causes tobacco to cure slowly, resulting in a darkened leaf which can have weight loss of up to about 20%. Too low moisture causes tobacco to cure too quickly, resulting in a green leaf. Both conditions cause degrades in quality. Favorable conditions for curing are in the 60° to 90° F and 65%-70% RH range over each 24-hr period.

It is advisable to follow regional practices and extension service guidelines, as well as your own practical experience to best manage your crop.

Common electrodes used with the FX-30 are the 830-2 prod (requires the H-4 handle), 30-E/C bale prod and 37-E/c multi pin prod.

Testing Brazil Nuts

The FX-30 includes a calibration developed for Brazil Nuts in shell (6%-25%MC). It is ideal for checking moisture levels during production, storage, and buying/selling. Use the 2-E (5/16in penetration) or 22-E (1/2in) penetration.

Testing Dates

The FX-30 includes a calibration developed for Dates and a variety of dried fruits (6%-25%MC). It is ideal for checking moisture levels during production, storage, and buying/selling. Use the 2-E (5/16in penetration) or 22-E (1/2in) penetration.