Delmhorst®
INSTRUMENT CO
WHEN ACCURACY IS THE POINT.®

Owner's Manual HTX-30

Contents

Rev 4 – September 2024

1. Introduction

Thank you for purchasing the new all-purpose HTX-30, the latest in Delmhorst's "HT-series" thermo-hygrometer and the latest model from the new Navigator™ family of meters. Delmhorst HT meters are known worldwide for their unmatched reliability and ease of use.

The HTX-30 is the ideal tool for the building trades, water damage restoration, and inspection applications. This exciting new meter offers the latest in features and functionality. It is packaged in a robust and ergonomically designed ABS case to provide a premium, tactile feel, and intuitive user interface with dashboard-like display.

Together with the new Delmhorst *EDGE®* app, users can customize meter settings and share data or graphs from any jobsite quickly and accurately.

The HTX-30 carries 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 HTX-30 has to offer.

Should you need assistance at any time, please contact us via email at info@delmhorst.com or by calling 877-DELMHORST (335-6467).

2. Safety
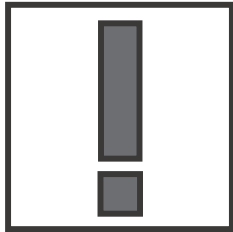
 Proper Meter Use: When used properly, the HTX meters can help users make informed decisions on the psychrometric conditions of their working area. Use this meter only as described in this manual. Improper use may result in a decline in device performance.

RH/T Sensor Care: Continued exposure to high temperature and humidity, chemical vapors, and any other corrosive environment will accelerate inevitable sensor aging, loss of calibration, and possible permanent damage. The sensor always must be stored inside the pouch in which it was received and in a clean, dry place when not in use. It is best to keep the meter and sensor in the carrying case. We recommend checking calibration periodically with either a "reference sensor" which is kept strictly for this purpose, or a salt solution. Both are available from Delmhorst or your supplier. Please refer to the following link for a list of "Do's and Don'ts" for your RH/T sensors.

https://cdn2.hubspot.net/hubfs/196934/docs/Whitepapers/WhitePaper-Relative-Humidity-Sensor-Behavior-and-Care.pdf

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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. The battery door is located on the rear of the handle.

5. **Sensor Connector** – 3.5mm jack used to connect the HTX-30 meter to the Short and Long Sensor Probes.

6. **Long Sensor Probe** – RH/T sensor inside a long, protective plastic housing. Perfect for measuring the temperature and humidity of de-humidifier outputs or other tight spaces. Connects to the HTX-30 meter via a 3.5mm plug.

4. Menu Features

The Delmhorst HTX meter has 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.
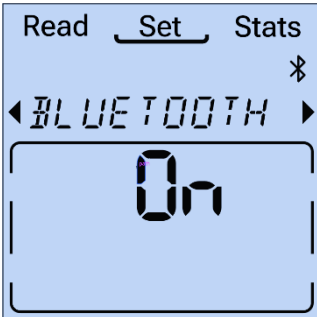
<u>Read</u>	<u>Set</u>	<u>Stats</u>
Read Set Stats **♀ Location** ⁄ ✳ ◀ *GPP* *76.93*▶ **52.3** %RH **78.8** ºF	Read Set Stats ✳ ◀*BLUETOOTH* ▶ **On**	Read Set Stats **♀ Location** ⁄ ✳ ◀*AVERAGE* ▶ **51.4** %RH **79.4** ºF
• Change reading location • Hold Readings • Save Readings • Scroll through additional reading metrics	• Set desired reading metrics • Bluetooth® • Off Timer • Backlight ON/OFF/AUTO • Backlight brightness • Screen contrast • Set Date and Time	• Total number of readings • Stats for all locations • Stats for individual locations • Average, high, low, standard deviation • View readings • Erase all data

Table 1: Menu Features

5. Read Menu
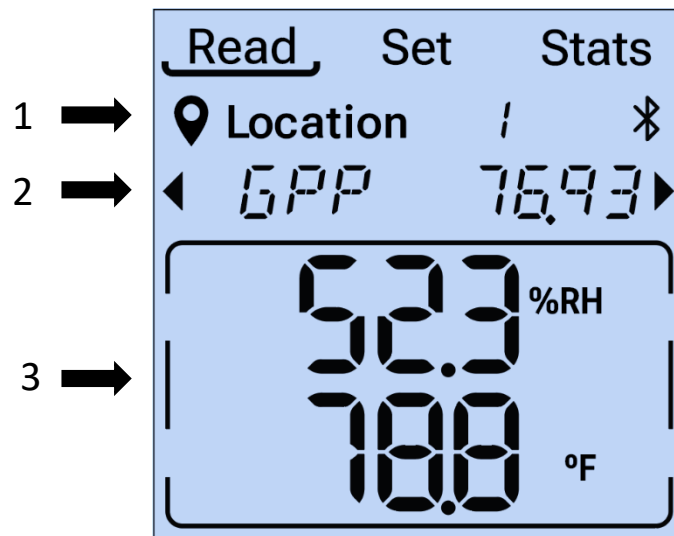
Figure 2: Read screen components

1. Location Selection

Use the left and right arrow keys to set the meter location (1-30). Locations can be used to group readings for statistical analysis or export purposes.

2. Additional Reading Metric

Use the left and right arrow keys to scroll through the following reading metrics:
- Relative Humidity (%RH)
- Temperature (°F, °C)
- Dewpoint (°F, °C)
- Vapor Pressure (PSI, kPa)
- Mixing Ratio (GPP, GPK)
- Time
- Date

3. Primary Reading Area

The primary reading area displays two customizable reading metrics. These values are Relative Humidity (%RH) and Temperature (°F) by default, but can be changed to Dewpoint (°F, °C), Vapor Pressure (PSI, kPa), and Mixing Ratio (GPP, GPK) in the Set menu.

4. Holding and Saving Readings

When a reading is visible on the screen, press the Read button to HOLD a reading.

When a reading is visible on the screen, press the Center button to SAVE a reading. This works for both live and held readings.
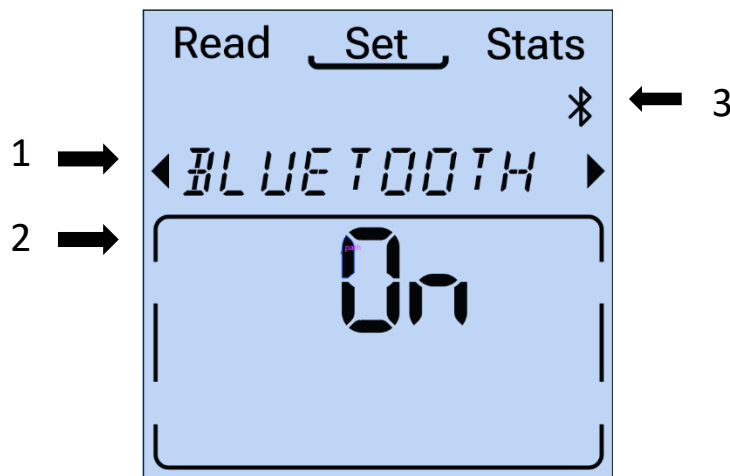
6. Set Menu

Figure 3: Set screen components

1. Setting Selection

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

2. Setting State

The setting state area displays the state of the selected setting. Press the left and right buttons to change between different setting states. Press the Center, Up, or Read button to confirm any changes.

3. Bluetooth® Indicator

The HTX-30 is equipped with Bluetooth® technology, allowing users to connect their meter(s) to a 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
Measure	• Allows users to customize which reading metrics are displayed in the Primary Reading Area • Select one metric for the upper reading line, and a second metric for the lower reading line • Choose between Relative Humidity (%RH), Temperature (°F, °C), Mixing Ratio (GPP, GPK), Vapor Pressure (PSI, kPa), and Dewpoint (°F, °C) • *Factory default is Relative Humidity (%RH) and Temperature (°F)*
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*
Off Timer	• Chose 1, 4, or 10-minute screen off timer • *Factory default is 1 minute*
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*
Time	• Adjust the time of the meters internal clock • Adjust hour, minute, second, AM/PM

Table 2: Settings options
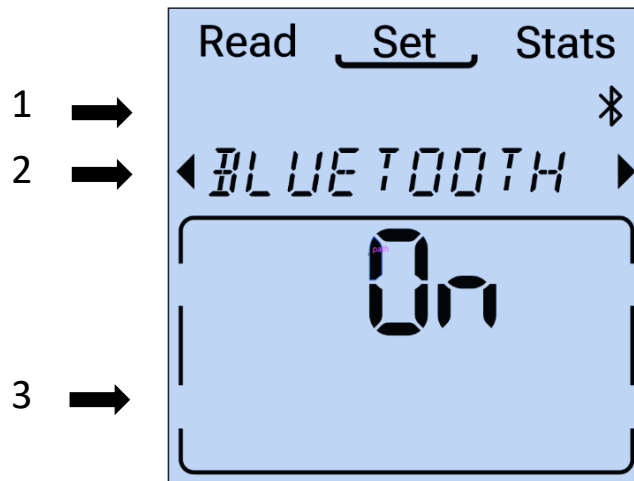
7. Stats Menu

Figure 4: Stats screen components

1. Location Selection

Select the location containing the readings for which you would like to view statistics. Setting the location to "- -" (left of 1) will display stats across all locations.

2. Stats Selection

The meter provides statistics for the readings that are currently saved in meter memory. Use the left and right buttons to scroll between these statistics. Table 3 below lists and describes the available statistics.

3. Primary Reading Area

The Primary Reading Area displays the value of the statistics selected in the Stats Selection area above. The reading metrics that are displayed in the Primary Reading Area are the same as the ones that appear on the read screen and can be customized via the "Measure" setting in the Set menu.

Statistic	Description
Readings	• Displays the total number of readings stored in the selected location(s).
Average	• Displays the average value of the saved readings in the selected location(s).
High	• Displays the highest value of the saved readings in the selected location(s).
Low	• Displays the lowest value of the saved readings in the selected location(s).
View Data	• Displays a list of all saved readings in the selected location(s). Use the left and right buttons to scroll through the list of readings. Use the up button to exit the list and return to Stats Selection.
Erase All Data	• Clears all saved readings and statistics from the meter.

Table 3: Available Stats

8. Delmhorst *EDGE®* App Features

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

1. Export full data sets or selected readings from meter to app to be viewed on a single page and further analyzed.
2. Exclude extraneous readings from Statistics calculations.
3. Export readings from app to spreadsheet for long term storage and analysis.
4. Add custom notes to individual readings.
5. Add preset notes to individual readings (Floor/Wall/Ceiling and N/S/E/W/C).
6. 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

Range:	-40 – 180 °F		(-40 – 82 °C)
Accuracy:	±0.54 °F	@	-40 to 32 °F and 0 to 100 %RH
	±0.36 °F	@	32 to 149 °F and 0 to 100 %RH
	±0.90 °F	@	149 to 180 °F and 0 to 100 %RH
	(±0.3 °C	@	-40 to 0 °C and 0 to 100 %RH)
	(±0.2 °C	@	0 to 65 °C and 0 to 100 %RH)
	(±0.5 °C	@	65 to 82 °C and 0 to 100 %RH)

Relative Humidity

Range:	0-100 %RH		
Accuracy:	±2.0 %RH	@	77°F (25°C) and 0 to 30 %RH
	±1.8 %RH	@	77°F (25°C) and 30 to 70 %RH
	±2.0 %RH	@	77°F (25°C) and 70 to 100 %RH

Power

2 x AA Batteries

Size

8.6 in x 2.9 in x 1.6 in (22 cm x 7.4 cm x 4.1 cm)

Weight

7.3 oz (0.21 kg) with batteries

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. 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 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.

- Change the sensor as needed. Keep sensors in their anti-static bags when not in use.

- Clean the meter with any biodegradable cleaner. 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 this does not resolve the problem, go to www.delmhorst.com and follow the instructions under the Support tab. If you require further assistance, please call **877-DELMHORST (335-6467) or 973-334-2557**.

Limited Warranty

Delmhorst Instrument Co. 51 Indian Lane East, Towaco, NJ 07082, referred to hereafter as Delmhorst, guarantees its HTX-30 meter against defects in material or workmanship for two years from date of purchase. Sensors are guaranteed for 90 days. See the owner's manual or Delmhorst website (www.delmhorst.com) for warranty period on your specific

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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 https://www.delmhorst.com/returns-service-warranty. Include proof of purchase. 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.

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

Contact info:

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Towaco, NJ 07082

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www.delmhorst.com

Info@delmhorst.com

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