

M71633 FAQs

We are weather enthusiasts like you and know proper running equipment is important. These FAQs provide valuable information on setup, positioning, and troubleshooting your station. We recommend Adobe Reader version 10 or greater available at: <http://get.adobe.com/reader>

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BATTERIES: WHAT DO I NEED TO KNOW ABOUT BATTERIES?

- Good fresh batteries are important for the best performance in your sensors and as a backup in your clock.
- Batteries with an expiration date of 2030, were manufactured in 2020.
- We recommend batteries with an expiration date 6 years in advance of the current year for best performance.
- A minimum voltage of 1.48 v per battery is required for best performance.
- Lithium batteries may be used in outdoor sensors. Alkaline batteries for the clock.

SENSOR AND STATIONS

Your M71633 station comes with: TX141TH-B series Sensor 433MHz RF.

WHAT ARE THE POWER REQUIREMENTS FOR THIS STATION?

TX141TH-B: 2 “AA” batteries (not included)

M71633: 5-volt power adapter HX075-0500600-AU-01 (Required for operation)
1 x CR2032 Coin Battery for backup (included)

SETUP: HOW DO I SET UP MY STATION?

1. Insert 2-AA batteries into your Outdoor Sensor.
2. Insert the 5-volt power cord into an outlet, then into your M71633. Remove the tab for the coin cell battery.
3. Once the sensor is reading to your station, place it outside in a shaded location to protect it from the sun’s heat. Allow up to 10 minutes for sensors to connect.

MOUNTING: WHERE DO I MOUNT/POSITION MY SENSOR?

For Accurate Outdoor Temperature/Humidity Measurements

- Insert a mounting screw through the hole at the top to securely mount the sensor. It can also hang from the back using a nail.
- Mount the sensor vertically in a protected well-shaded area. Keeping it out of direct weather elements such as sunlight, rain, snow, etc. will help avoid inaccurate readings.

- For additional protection against weather elements, a Sensor Weather Shield: <https://bit.ly/weather-shield> can be purchased separately.
- The maximum wireless transmission range to the station is up to 330ft (100m) in open air. This does not include walls, floors, or other large obstructions.
- For online video instructions visit: bit.ly/th_sensor_mounting

WHERE DO I PLACE MY STATION?

Your station is designed for flexible placement on a desk or countertop, or to position on the wall. When the stand is closed, it provides wall mounting holes. Please note the Power Cord is required for operation.

Position within reach of an outlet that is always active. Some outlets in living rooms and bedrooms may only be active when the light switch is on.

Best reception occurs when only one wall is between your station and each sensor outside. Position your station six feet from other electronics and wireless devices. If you suspect RF (radio frequency) interference, simply move your weather station a few feet.

BUTTON FUNCTIONS

There are 11 function buttons on this weather station. In order:

Top:

DECIMAL ON/OFF | HEAT/DEW | - (MINUS) | SET | + (PLUS) | DISPLAY MODE | TEMP | EXTRA SENSOR

Front:

ALERT CONDITIONS | DISPLAY BRIGHTNESS

Back:

RESET

1. DECIMAL ON/OFF button

Normal Time Display-

- Press and release to select Decimals On or Off.

Settings-

- Press to exit any setting mode.

2. HEAT/DEW button

Normal Time Display-

- Press and release to view Outdoor Heat Index and Dew Point

3. - (MINUS) Button:

Settings-

- Press to decrease values during setting.
- Hold 2 seconds to quickly adjust values.

Alert Mode:

- Press to Arm/Disarm an alert.
- Press to decrease values during setting.
- Hold 2 seconds to quickly adjust values.

Temp/Humidity Records Mode-

- Hold the MINUS button for 5 seconds to delete individual temp/humidity records.

Extra Sensor Mode-

- Press and release to reset Rain History (if the rain sensor is connected)
- Hold the MINUS button for 5 seconds to delete sensors.

4. SET button:**Normal Time Display-**

- Hold for 2 seconds to set time/calendar, etc.

5. + (PLUS) Button:**Setting Mode-**

- Press to increase the values by one.
- Hold 2 seconds to quickly adjust values.

Alert Mode:

- Press to Arm/Disarm an alert.
- Press to decrease values during setting.
- Hold 2 seconds to quickly adjust values.

6. DISPLAY MODE button**Normal Time Display-**

- Press and release to toggle between 24-hour HI/LO Temperature or Humidity (outdoor only). The station will stay on Temperature or Humidity as selected.
This is a rolling 24-hour HI/LO reading.
- Hold to Turn Animation ON or OFF (Birds, Stars)

7. TEMP button**Normal Time Display-**

- Press and release to view indoor and outdoor HI | LO temperature/humidity records with Time and Date.
- Hold 2 seconds to search for Outdoor Sensor

Temp/Humidity Records Mode-

- Hold the MINUS button for 5 seconds to delete individual temp/humidity records.

8. **EXTRA SENSOR button**

Normal Time Display-

- Press and release to view add-on sensors (including Rain History if rain sensor connected) or to auto-scroll.
- Hold to search for add-on sensors.

9. **ALERT CONDITION button**

Normal Time Display-

Hold the ALERT CONDITIONS button for 2 seconds to enter alert set mode.

Alerts Mode-

Press to confirm & move to the next alert.

10. **DISPLAY BRIGHTNESS button:**

Normal Time Display-

- Press to change the LCD backlight brightness (5 levels)
- Hold to enter Auto Dim settings.

11. **RESET button:**

Normal Time Display-

- Hold 5 seconds to reset the station to factory defaults. All records will be lost.

HOW DO I MANUALLY SET THE TIME?

Note: Only press or hold one button at a time.

1. Hold the **SET** button for 2 seconds to enter settings mode.
2. Press the + or - button to adjust the flashing values.
3. Hold the + or - button to adjust quickly.
4. Press the **SET** button to confirm adjustments and move to the next item.
5. Press the **DECIMAL** button at any time to exit.

Settings Order:

- Greeting HELLO
- Beep ON/OFF
- 12HR/24HR
- Hour
- Minutes
- Seconds
- Year
- Month
- Date
- Fahrenheit/Celsius
- Decimals ON/OFF

- Pressure: InHg / hPa
- Pressure number setting
- THANK YOU

Settings Menu

1. Hold the SET button for 2 seconds to enter setting mode. HELLO, will show for two seconds, then automatically move to Beep ON/OFF. BEEP ON will show. Press the + or – button to turn the beep sound OFF. Press the SET button to move to the 12/24-Hour Time Format.
 2. Press SET to confirm and move to 12/24-hour time. **FORMAT 12Hr** will show. Press the + or - button to select the 24-hour time format.
 3. Press SET to confirm and move to the hour. **HOUR** will show. The hour flashes. Press the + or - button to choose the hour.
 4. Press SET to confirm and move to the minutes. **MINUTES** will show. Minutes flash. Press the + or - button to choose the minutes.
 5. Press SET to confirm and move to the seconds. **SECONDS** will show. Seconds flash. Press the + or - button to set the seconds.
 6. Press SET to confirm and move to the year. The **YEAR 2024** will show. The year will flash. Press the + or - button to change the year.
 7. Press SET to confirm and move to the month. The **MONTH JAN** will show. The Month will flash. Press the + or - button to change the month.
 8. Press SET to confirm and move to the date. The **DATE** will show. The date will flash. Press the + or - button to change the date.
 9. Press SET to confirm and move to the temperature unit. **FAHRENHEIT** will show. Press the + or - button if you prefer Celsius.
 10. Press SET to confirm and move to the temperature decimal ON or Off. **DECIMAL ON** will show. Press the + or - button if you prefer Decimal OFF.
 11. Press SET to confirm and move to pressure units. **PRESSURE** will show. **INHG** will flash. Press the + or - button to select HPA.
 12. Press SET to confirm and move to adjust the pressure number. **SET PRESSURE** will show. **The pressure number** will flash. Press the + or - button to adjust the pressure number.
 13. Press SET to confirm. **THANK YOU** shows for 2 seconds, then exit the setting menu.
- Note:** After 10 seconds with no button press, the station returns to normal time display.

WEEKDAY: HOW DO I CORRECT THE DAY OF THE WEEK?

The day of the week will be set when the Year, Month, and Date are set. If your day of the week is incorrect, yet the month and date are correct, please go to the [program menu](#) and check the YEAR setting.

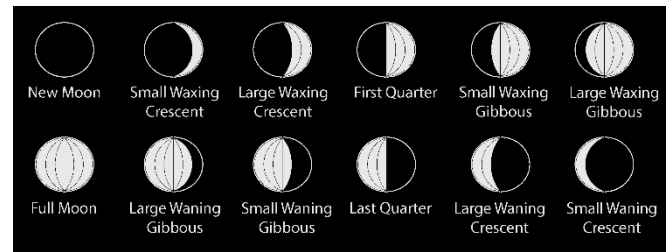
DOES THIS STATION HAVE 12-HOUR AND 24-HOUR TIME OPTIONS?

Yes, you can select a 12-hour or 24-hour time format in the [program menu](#).

WHAT ARE THE MOON PHASES?

The Moon Phase will show from 7:00 pm to 6:59 am for any forecast.

- The moon phase is based on the Lunar calendar.
- In the settings menu, the moon phase will change as year, month, and date are set.



FORECAST ICONS: WHAT DO THE FORECAST ICONS MEAN?

The unit predicts weather conditions for the next 12 – 24 hours based on the change in atmospheric pressure. The weather forecast is based on atmospheric pressure change and is about 70-75% correct. When the Outdoor temperature is below 32 F and the forecast is RAIN or T-STORM, the LCD will display SNOWY.

Forecast Icons:

- Sunny
- Partly Cloudy
- Cloudy
- Rain
- T-Storm
- Snow

Your station calibrates barometric pressure based on its location over time to generate an accurate, personal forecast. Please allow 7-10 days for barometer calibration.

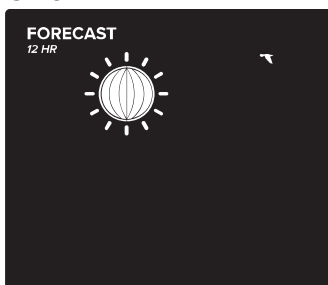
Note: As the Station builds memory, it will compare the current average pressure to the past forty-day average pressure for increased accuracy. The longer the Station operates in one location the more accurate the forecast icons will be.

EXPLAIN THE ANIMATED FORECAST.

When the Forecast is Sunny you will see **Animated Birds** between 7:00 am-6:59 pm and **Animated Stars** from 7:00 pm-6:59 am.

Birds 7:00 am-6:59 pm with Sunny (clear) Forecast

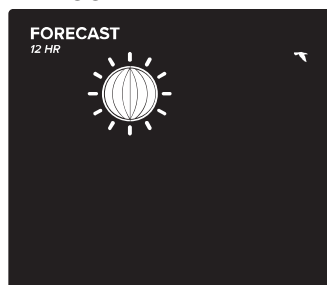
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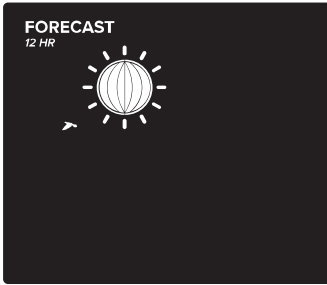
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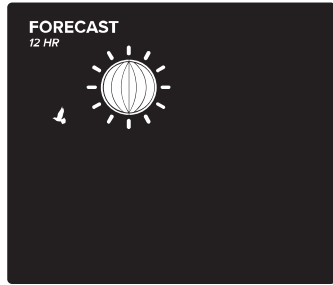
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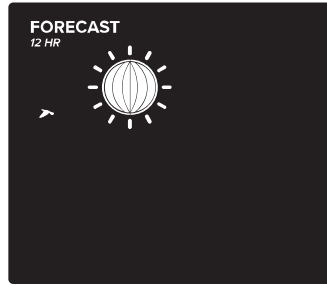
Four



Five

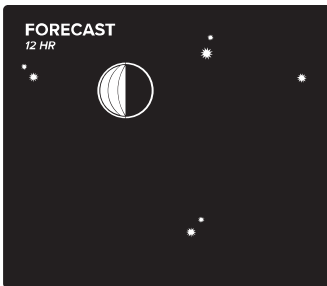


Six

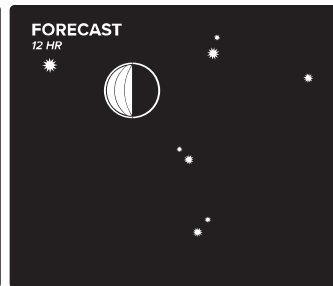


Stars 7:00 pm-6:59 am with Sunny (clear) Forecast

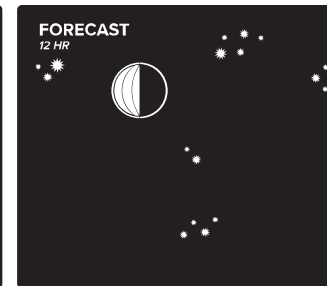
One



Two



Three



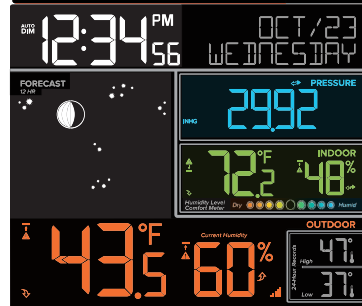
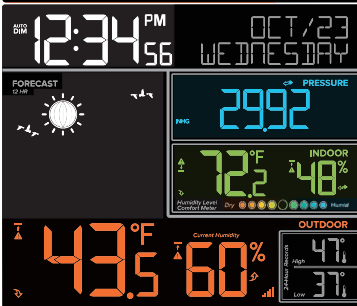
ANIMATION ON OR OFF

Hold the **DISPLAY MODE** button to turn Animation OFF. All the Birds and Stars will show steady without moving when the forecast is Sunny (clear).

Animation OFF Daytime



Animation OFF Nighttime

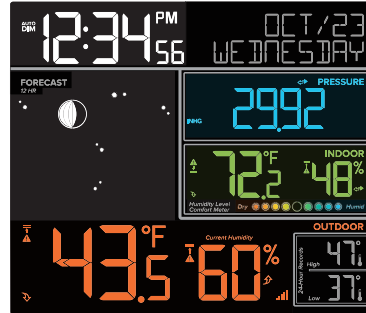
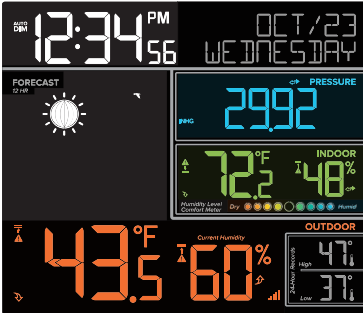


Hold the **DISPLAY MODE** button to turn Animation On again. The Birds and Stars will move when the forecast is Sunny (clear).

Animation ON Daytime



Animation ON Nighttime



PRESSURE NUMBER

Pressure Number

- Barometric pressure is read by the station every 12 seconds.
- Default reading is: InHg 29.92 InHg (1013 hPa)
- The Pressure Number is programmable in the settings menu.



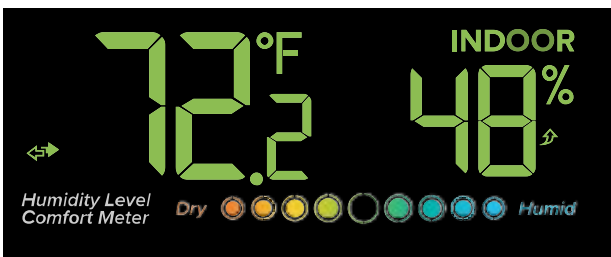
Pressure Trend Arrows



Pressure Trend Arrows indicate if the Pressure has been falling, steady, or rising over the past 3 hours.

HUMIDITY COMFORT METER

The Indoor Comfort Meter is based on Indoor Humidity. The **Empty Circle** will indicate the current comfort level.



While Auto Dim is active:

- Press and release the DISPLAY BRIGHTNESS button to adjust the backlight for 10 seconds. Intensity Levels: OFF | 1.5% | 20% | 50% | 100%.
- If you change the backlight setting the station will stay on the new setting and will automatically go back to the auto dim on the next start point.


MY TEMPERATURE/HUMIDITY READINGS ON MY STATION DO NOT MATCH THE WEATHER REPORT.

- Your temperature and humidity readings are from your sensor at your location. Your local reporting station can be miles away so readings will differ.

WHAT DOES A READING OF “HI” OR “LO” MEAN?

- If your outdoor temperature reading shows “HI” or “LO”, check that your [batteries](#) are good.
- Overpowered or underpowered batteries can cause this reading.
- If batteries are good, replace the outdoor sensor.
- If your temperature is fine but your humidity is reading “HI” or “LO” or dashes, your humidity may be below 10% Relative Humidity. Your sensor does not read below 10% humidity.

WHAT DOES “NO” MEAN?

- If a sensor loses connection to the station for any reason, the station will show **NO** after 30 minutes.
- The station will search for 3 minutes every hour to reconnect with the sensor.
- Hold the **TEMP** button 2 seconds to search for the sensors in the Outdoor Area
- Icon will flash while searching for the sensor. The outdoor area will show dashes during the search. When the sensor is received the icon  will be solid.
- If no sensor is received, the icon disappears after 3 minutes of searching if the sensor is not found.
- **NO** will again show in the outdoor sensor area.

WHY DOES MY TEMP/HUMIDITY READING COME AND GO?

- RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g., moister climates).
- If a sensor goes out, please wait 2-4 hours for it to reconnect on its own. Please be patient – these stations can reconnect on, after many hours out.
- RF (radio frequency) communication is not always 100% on. Certain temporary conditions can cause it to go out for a time (e.g., 100% humidity).

If a miss happens:

- If sensor loses connection to the station for any reason, the station will show NO after 30 minutes.
- The station will search for 5 minutes every hour to reconnect with sensor.
- Be sure you have good [batteries](#). Manually search for your sensor.

Try this:

- Bring your sensor within 10 feet of your station and make sure it is connected to the station.
- After 15 minutes move the sensor into the next room with a wall between the sensor and the station for 1 hour.
- If there is no loss of signal in that hour, move the sensor just outside.
- Continue moving the sensor back to its original location.
- If you lose connection, look for sources of [interference](#).

WHAT IS DISTANCE | RESISTANCE | INTERFERENCE?

Distance:

- The maximum transmitting range in open air is over 330 feet (100 meters) between each sensor and your station.
- Consider the signal path from your station to each sensor as a straight line.
- Consider the distance the station is from other electronics in the home.

Resistance:

- Each obstacle: walls, windows, vegetation, stucco, concrete, and large metal objects will reduce the effective signal range by about one-half.
- Mounting your sensors on a metal fence can significantly reduce the effective signal range.

Interference:

- Consider electronics in the signal path between the sensors and your station.
- Simple relocation of the sensors or the station may correct an interference issue.
- Windows can reflect the radio signal.
- Metal will absorb the RF (radio frequency) signal.
- Stucco held to the wall by a metal mesh will cause interference.
- Transmitting antennas from: ham radios, emergency dispatch centers, airports, military bases, etc. may cause interference.
- Electrical wires, utilities, cables, etc. may create interference if too close.

CAN I CHANGE THE BATTERIES IN MY SENSORS WITHOUT LOSING THE DATA?

We designed this station for convenience so that a simple change of batteries does not lose data or require you to power down your station.

- When the Battery Indicator shows in the Outdoor Sensor area, replace the batteries in your Outdoor Sensor.
- Then hold the **TEMP** button for 3 seconds and your station will search for your sensor.
- When changing the battery in the color station, continue using the power cord. After replacing the battery, no other action is needed. The battery in the station only maintains time/date in the event of a power outage.

FACTORY RESET: HOW DO I FACTORY RESET MY STATION?

To factory reset your M71633:

1. Hold the **RESET** button for 5 seconds.
2. When your station resets it will look for the sensor. Allow at least ten minutes to reacquire the sensor.

HOW DO I VIEW MY HI AND LO HISTORY READINGS?

Your high and low temperature and humidity readings are recorded with time and date of occurrence. Each time a new high or low reading is recorded, that reading with time and date of occurrence will show.

From the normal display, press and release the **TEMP** button to view indoor and outdoor HI | LO temperature/humidity records.

Viewing order:

- Outdoor HI Temp with Time/Date
- Outdoor LO Temp with Time/Date
- Outdoor HI Humidity with Time/Date
- Outdoor LO Humidity with Time/Date

- Indoor HI Temp with Time/Date
- Indoor LO Temp with Time/Date
- Indoor HI Humidity with Time/Date
- Indoor LO Humidity with Time/Date

Reset History Readings (each reset individually):

- Press the TEMP button to view individual readings.
- Hold the MINUS button for five seconds to reset the individual value.

TEMPERATURE TREND ARROWS

The temperature (2°F / 1°C) and humidity (3%) trend indicators update every 15 minutes. The trend reflects changes over the past 3 hours.



24-HOUR TEMPERATURE OR HUMIDITY RECORDS

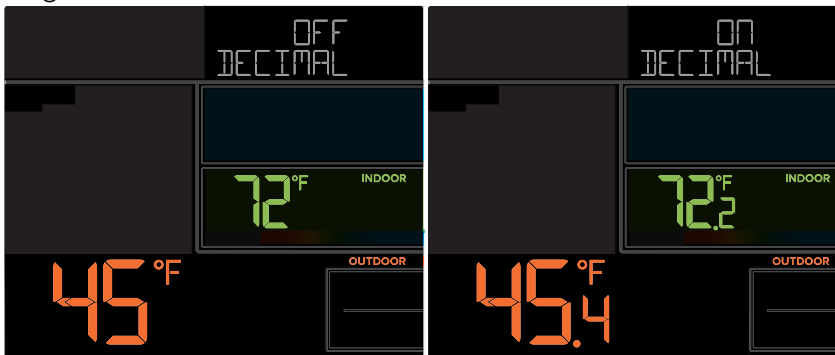
Press and release the **DISPLAY MODE** button to toggle between HI/LO Temperature or Humidity (outdoor only). The station will show TEMP 24 Hr. or HUM 24 Hr. briefly then return to normal display. The station will stay on Temperature or Humidity as selected. This is a rolling 24-hour HI/LO reading.



CAN I TURN THE DECIMALS OFF WITHOUT GOING INTO THE SETTINGS MENU?

From the normal time display, press and release the DECIMAL ON/OFF button to turn temperature decimals on or off. The temperatures and DECIMAL ON or OFF will show briefly.

Note: When Decimal Off is selected, the decimal point will round up or down to the closest whole degree. Decimals 0-4 will round down to the nearest whole degree. Decimals 5-9 will round up to the nearest whole degree. **Example:** 45.4 becomes 45 degrees. 45.5 becomes 46 degrees.



HOW DO I VIEW THE HEAT INDEX AND DEW POINT?

Press and release the HEAT/DEW button to view the current Heat Index, then Dew Point Temperature.

Heat Index:

Heat Index combines the effects of heat and humidity. The heat index will be the same number as the Outdoor Temperature until the outdoor temperature is above 26.7°C (80°F).

Dew Point Temperature:

Dew Point Temperature is the saturation point of the air, or the temperature to which the air must cool to create condensation. The higher the dew points, the higher the moisture content of the air at a given temperature. The Dew Point is lower than the actual temperature.

HOW DO I SET ALERTS?

HI ALERT  **LO ALERT** 

Important:

- Alerts are defaulted to be OFF.
- Leave an alert OFF (disarmed) press the ALERT CONDITIONS button to skip setting that alert value.
- The alert icon will show when the alert is active.
- When armed alert value is reached, the station will beep 5 times each minute, until out of alert range. The flashing alert icon will indicate it is a LO or HI alert.
- Press any button to stop the temp alert sound. The alert icon will flash while the value is in the alert range.

Set Alerts:

1. Press and hold the ALERT CONDITIONS button 2s to enter alert set mode.
2. Press and release the + or – button to turn the alert ON/OFF
3. If the alert is ON, the alert value is flashing. Use the + or – buttons to set. Hold the + or – buttons to scroll quickly.
4. Press and release the ALERT CONDITIONS button to move to the next item.
5. Leave an alert OFF (disarmed) and press the ALERT CONDITIONS button to skip setting that alert value
6. The alert icon will show when the alert is active.
7. When armed alert value is reached, station will beep 5 times each minute, until out of alert range.(1 second beep once, sound for 5 seconds, wait 55 seconds and then repeat began to ring for 5 seconds.)
8. The flashing alert icon will indicate if it is a LO or HI alert.
9. Press any button to stop the temp alert sound. The alert icon will flash while value is in alert range

Alert Setting Order:

- Outdoor LOW Temperature ON/OFF
- Outdoor HIGH Temperature ON/OFF
- Outdoor LOW Humidity ON/OFF
- Outdoor HIGH Humidity ON/OFF
- Indoor LOW Temperature ON/OFF
- Indoor HIGH Temperature ON/OFF
- Indoor LOW Humidity ON/OFF
- Indoor HIGH Humidity ON/OFF


CAN I ADD ADDITIONAL SENSORS TO THIS STATION?

This station can display data for one add-on Rain Gauge (TX145R or TX145R-BL) as well as up to three additional Temp and Humidity Sensors (TX141TH-BCH). These readings will all appear in the upper left section of the LCD in place of the Pressure reading.


Purchase Add-on Sensors at: bit.ly/m71633_parts



Add Sensors to your station:

1. Hold the EXTRA SENSOR button until the Sensor Reception Indicator () starts to animate.
2. Install batteries into your sensor. If the sensor has a TX button, press it to force a transmission signal. This button is usually located in or near the sensor's battery compartment.
3. Your sensor should connect within the next 3 minutes. The Sensor Reception Indicator will show solid on the screen when a sensor is connected.

View Add-on Sensors:

Press and release the EXTRA SENSOR button to toggle through all add-on sensors, full rain history, and relative pressure data. The Auto-Scroll Icon () will appear at the end of this list and, if left on, will continually cycle through add-on sensor data on your LCD.

Delete Add-on Sensors:

Press and release the EXTRA SENSOR button to view extra sensors. While viewing, hold the - (MINUS) button to delete that sensor.

Rain History(When Rain sensor is added):

Press and release the **EXTRA SENSOR** button to view Rain History.

While viewing Rain History, press and release the **MINUS** button to reset individual history records. While viewing Month, press and release the **PLUS** button to toggle through the past 12 months' history.

- **RAIN 1 HR:** Last one-hour rainfall (12 consecutive 5 minutes rainfall accumulated total). Example: current time is 6:49, 1HR rain is accumulated total between 5:50 to 6:49. Updates every 5 minutes.
- **RAIN 24 HRS:** Based on past 24 hours accumulated rain total. For each full hour, 1 hour of rainfall is recorded. This is a running total.
- **RAIN 7 DAYS:** Accumulated last 7 consecutive 24HR rain. On each day at 0:00, 24HR rain is recorded. Not a subject to the calendar. Be sure the time is set.
- **MONTH: Current Month.** Ex: January 1-January 31. On the first month calendar day 0:00, the month rain is reset to 0. Accumulated rain from 1st of xx (month) to current day xx (month). The current month will be shown in the date area.
Note: Press and release the **EXTRA SENSOR** button to view MONTH Rainfall History records. Press and release the **PLUS (+)** button to toggle through the past 12 monthly history readings. When viewing past months' Rain History, the month will show in the Calendar area. Only the month and rainfall will show.
- **RAIN YEAR: Current year** January 1-December 31 total. Example: The current date is Nov. 10, 2024. Year rain is Jan 1, 2023 –Oct 31, 2024, month totals, plus the current month (Nov 1-10) rain. The current Year will show in the time display.
- **RAIN TOTAL:** Total rainfall since powered on or reset.

Note: As time passes without rain, the 1-hour, 24-hour, and 7-day rain totals will count down to zero.

LAST RAIN Days Ago:

When there is no measurable rainfall for 24 hours, the station will show LAST RAIN Days Ago. This will immediately switch to counting rain when measurable rainfall occurs.

WHAT IS AUTO-SCROLL?

Auto-scroll: The Auto-scroll Icon will show when active. Press and release the **EXTRA SENSOR** button to scroll through pressure and all added sensors. At the end, auto-scroll will be active. The Word AUTOSCROLL will show briefly. If the add-on sensors include rain, after viewing rain history, continue to show other sensors and pressure.

To stop auto-scrolling, press and release the **EXTRA SENSOR** button until the Auto-scroll Icon disappears. The station will stay on the last item viewed.

