



7-in-1 PROFESSIONAL WIRELESS WEATHER STATION WITH LARGE COLOR DISPLAY

Instruction Manual

SKU# 2577403

PARTS LIST:

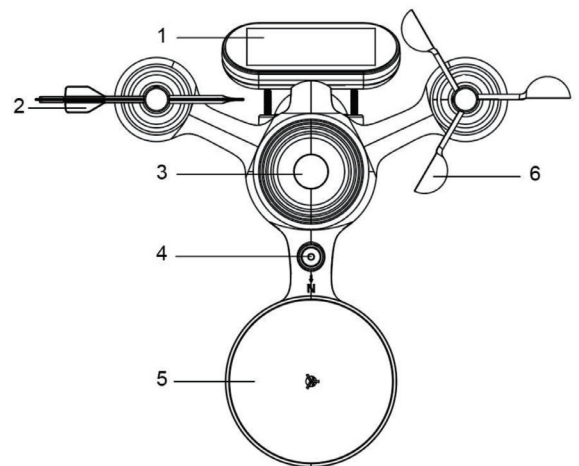
No.	Description	Quantity	No.	Description	Quantity
1	Weather station	1	7	Mounting pole with 4 screws	1
2	Power adapter	1	8	Mounting brackets with 6 screws	1
3	Wireless 7-in-1 outdoor sensor	1	9	Rubber pads	2
4	Funnel	1	10	Screwdriver	1
5	Wind direction vane with 1 screw	1	11	Extra screws for vane and speed cups	4
6	Wind speed cups with 1 screw	1			

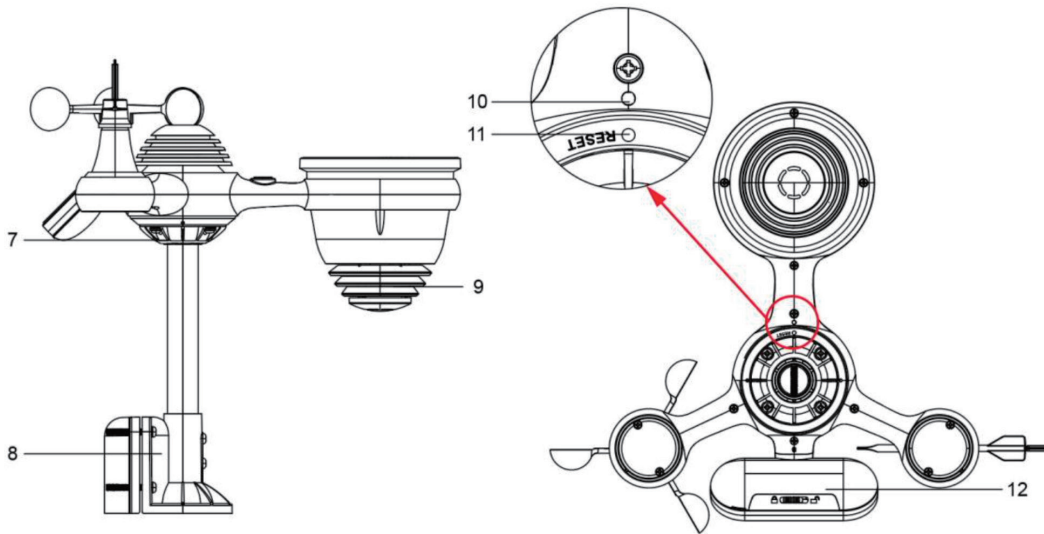
Please read instructions carefully before use. Retain for future reference.

3 x AA Batteries+3 x AAA Batteries Required

Wireless 7 - IN - 1 Outdoor Sensor

1. Solar panel
2. Wind direction vane
3. UV/light sensor
4. Bubble level gradient
5. Rain collector
6. Wind speed cups
7. Mounting pole
8. Mounting brackets
9. Hygro-thermo sensor
10. LED: Flashes when the unit transmits a reading
11. RESET button
12. Battery door





Weather Station - Front Display

1. Outdoor temperature/humidity reading, weather index
2. Wind direction & speed
3. Indoor temperature/humidity reading
4. Weather forecast
5. Time & date, moon phase, weekday
6. Light intensity
7. UV index
8. Rain
9. Barometer
10. SET button
11. TEMP/ALARM button
12. RAIN button
13. WIND/+ button
14. BARO/-/RCC button
15. ALERT button
16. MAX/MIN button
17. CHANNEL button



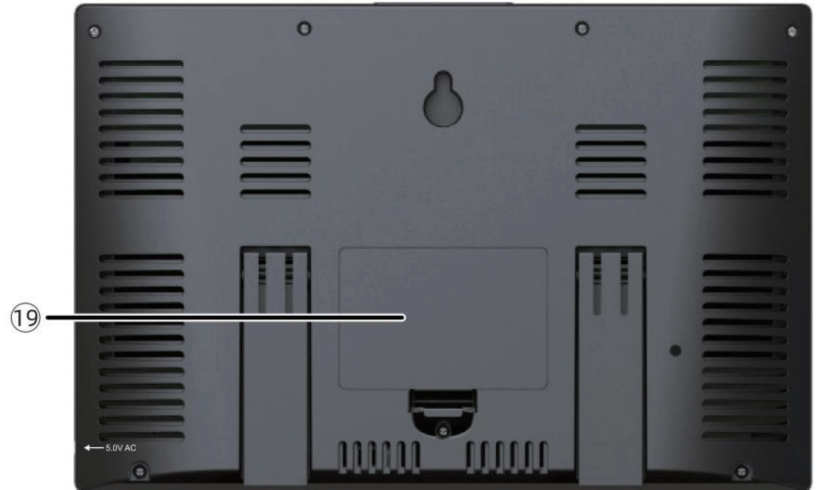
Weather Station - Top Buttons

18. LIGHT/SNOOZE button



Weather Station - Back of Display

19. Battery compartment (3 x AAA batteries, not included)



Functions

- Large, easy-to-read digit display with a bright backlight.
- 9 functional buttons: **SET, TEMP/ALARM, RAIN, WIND/+, BARO/-/RCC, ALERT, MAX/MIN, CHANNEL, LIGHT/SNOOZE.**
- Automatic atomic time setting for accurate timekeeping.
- Alarm function with snooze.
- Daylight Saving Time (DST) support.
- Time zone options: **EST, NST, AST, HST, AKT, PST, MST, CST.**
- Moon phase display.
- Indoor and outdoor temperature (°C/°F) and humidity readings with trend indicators.
- Adjustable backlight with 4 brightness levels.
- Rainfall display: hourly, daily, weekly, monthly, total rainfall, and rainfall rate in the past hour.
- Wind measurements: average wind speed, gust wind speed, and wind direction.
- Absolute and relative barometric pressure with trend.
- Light intensity and UV index display.
- Weather index display: "Feels Like," Wind Chill, Heat Index, and Dew Point.
- Weather forecast with symbols.
- Maximum and minimum value readings.
- Customizable weather alerts.

Set Up - Wireless 7-in-1 Outdoor Sensor.

The wireless 7-in-1 outdoor sensor measures:

- **Wind speed**
- **Wind direction**
- **Rainfall**
- **UV index**
- **Light intensity**
- **Temperature**
- **Humidity**

Installing the Mounting Pole and Bracket

- Attach the sensor to the mounting pole and bracket (included) as shown.
- Secure it in place using the provided screws.

Installing Wind Speed Cups and Wind Direction Vane

1. Wind Speed Cups

- Align the screw holes on the wind speed cups with the flat, vertical side of the metal rod.
- Insert the wind speed cups into the metal rod and tighten the screws securely to lock them in place.

2. Wind Direction Vane

- Align the screw holes on the wind direction vane with the flat, vertical side of the metal rod.
- Insert the wind direction vane into the metal rod and tighten the screws securely to lock it in place.

Setting Up the Rain Collector

1. Align the notches on the funnel with the lock grooves inside the rain collector.
2. Insert the funnel into the rain collector.
3. Tighten the screws securely to lock it in place.

Installing the Batteries

1. Slide the switch to unlock the battery compartment at the bottom of the solar panel.
2. Open the battery compartment cover.
3. Insert **three AA batteries** (not included), ensuring that you match the +/- polarity labels inside the compartment.
4. Close the battery compartment and slide the switch to secure it in place.

Mounting the Wireless 7-in-1 Outdoor Sensor

- Select a location that is open and clear of obstructions.
- Attach the mounting brackets to a wall or surface using the **four tapping screws** (included), or secure the mounting pole to your existing mounting pole using **four Ø5 bolts and M5 nuts**.
- Place the rubber pads onto the mounting bracket before fastening the bracket to the sensor.
- Ensure the **rain collector faces north** and the **solar panel faces south** before fastening the screws (included).
- Make sure the sensor is mounted securely. If the unit is not firmly fixed, windy conditions may cause the transmitter to shake and result in inaccurate rainfall data.

Pointing the Wireless 7-in-1 Outdoor Sensor South (Optional)

The outdoor wireless sensor is calibrated to face **north** for maximum accuracy. However, if you are in the **Southern Hemisphere**, you may point the sensor **south** instead.

1. Mount and install the sensor with the rain collector facing **south**, rather than north (see “Mounting the Wireless 7-in-1 Outdoor Sensor”).
2. In the clock setting mode, select “**STH**” for Southern Hemisphere (see “Setting the Clock”).

NOTE: Changing the hemisphere setting will automatically switch the moon phase direction on the display.

NOTE: Pointing the sensor south allows for maximum sunlight on the solar panel during winter in the Southern Hemisphere.

Adjusting the 7-in-1 Wireless Sensor Level

- Use the bubble level indicator to ensure the sensor is level.
- If the sensor is not level, rainfall, UV, and light intensity measurements may be inaccurate.
- To adjust: loosen the mounting pole screws, reposition the sensor until the bubble is centered, then retighten the screws.

Set Up - Weather Station


Powering Up the Weather Station

1. Plug the power adapter into the power jack on the back of the weather station.
2. Insert **3 new AAA alkaline batteries** (not included) for backup.
3. When powered on, the weather station will automatically enter pairing mode.

Pairing the Wireless 7-in-1 Sensor

- Once powered, the station will automatically search for and connect to the wireless sensor.
- If it does not connect within 5 minutes, refer to the “Re-Pairing Sensor” section.
- The **antenna icon** will scroll in the outdoor temperature and humidity section of the display while pairing.
- Once pairing is complete:
 - The **antenna icon** will appear solid (not flashing).
 - Outdoor readings will appear on the LCD for:
 - Temperature and humidity
 - Wind speed and direction
 - UV index and light intensity
 - Rainfall

Re-Pairing Sensor

- If the connection fails or the weather station is reset:
 1. Press and hold the **CHANNEL** button () for more than 2 seconds.
 2. The station will re-enter pairing mode.
 3. All previously registered sensors will automatically re-register. (You will not lose existing sensor connections.)

Atomic Clock Reception

- After RF connection is established (or 5 minutes after pairing), the station will attempt to receive the **atomic clock signal**.
- The RCC receiving dot icon will flash during this process.
- When a signal is detected, the signal strength will be shown. Once received successfully, the **time and date will update automatically**.
- The station will search for the WWVB atomic signal **every day at 1:00 a.m., 2:00 a.m., 3:00 a.m., 4:00 a.m., and 5:00 a.m.**
- The Atomic Time tower icon will **flash while searching** and appear solid when connected.
- Keep the weather station away from interference, such as electronic devices (TV, computer, microwave, radio, etc.)

Manual Atomic Clock Reception

- To manually receive the atomic clock signal:
 1. In Normal display, press and hold the **BARO-/RCC** button (Ⓐ) for over 2 seconds.
 2. The station will begin manually receiving the atomic clock signal.
- To cancel manual reception: press and hold the **BARO-/RCC** button (Ⓐ) again for over 2 seconds.
- For more information about the WWVB atomic clock, visit: www.nist.gov/pml/div688/grp40/wwvb.cfm.

Note: During the RCC reception, the **backlight is temporarily disabled** to improve signal reception.

Note: Once reception is finished, the backlight will automatically resume.

Operating Instructions

Setting the Clock

1. In Normal time display, press and hold the **SET** button (Ⓐ) for over 2 seconds to enter time setting mode.
2. Use **WIND/+** (Ⓑ) or **BARO-/RCC** (Ⓐ) to adjust values.
 - Press once for single-step adjustments.
 - Hold for over 2 seconds for rapid adjustments.
3. Press **SET** (Ⓐ) to confirm and move to the following item.
4. To exit setting mode at any time, press the **LIGHT/SNOOZE** button (Ⓒ).

Setting Order

1. RCC On/Off

Note: If RCC is set to OFF, the DST and Time Zone settings will be skipped, and the menu will proceed to the **Beep Setting**.

2. DST On/Off

3. Time Zone

Note: There are 8 time zones available

- EST = Eastern
- NST = Newfoundland
- AST = Atlantic
- HST = Hawaii
- AKT = Alaska
- PST = Pacific
- MST = Mountain
- CST = Central

4. Beep On/Off
5. Date Format (M-D / D-M)
6. Year
7. Month
8. Date
9. 12/24 Hour Format
10. Hour
11. Minute
12. Temperature Unit (°C/°F)
13. Pressure Unit
14. Relative Pressure Calibration
15. Light Intensity Unit
16. Rainfall Unit
17. Wind Speed Unit
18. Hemisphere
19. End of Setting

















Note: If no buttons are pressed for **20 seconds**, the station will automatically exit the setting mode and return to Normal Display.

Note: At any point while adjusting settings, you can press **LIGHT/SNOOZE** (Ⓜ) to exit to Normal Display immediately.

Moon Phase

The display console automatically calculates the moon phase based on the set **time, date, and time zone**.

The table below shows the icons used for both **Northern Hemisphere** and **Southern Hemisphere** displays:

Northern Hemisphere Icon	Moon Phase	Southern Hemisphere Icon
	New Moon	
	Waxing Crescent Moon	
	First Quarter Moon	
	Waxing Gibbous Moon	
	Full Moon	
	Waning Gibbous Moon	
	Third Quarter Moon	
	Waning Crescent Moon	

Setting the Alarm

1. In Normal Time display, press **SET** (⓫) to switch to Alarm Time mode.
2. In Alarm Time display, press and hold **SET** (⓫) for 2 seconds to enter Alarm Setting Mode. The **hour** digits will begin to flash.
3. Use **WIND/+** (⓬) or **BARO-/RCC** (⓭) to set the desired alarm hour.
 - i. Press and hold the button to adjust the hours more quickly.
4. Press **SET** (⓫) to confirm and move to **minutes**. The **minute** digits will flash.
5. Use **WIND/+** (⓬) or **BARO-/RCC** (⓭) to set the desired alarm minutes.
 - i. Hold the button to adjust the minutes more quickly.
6. Press **SET** (⓫) to save all alarm settings and return to Normal Display Mode.

NOTE: If no operation is performed within 20 seconds, the display will automatically exit to Normal Mode.

NOTE: At any point, you can also press **LIGHT/SNOOZE** (⓮) to return to Normal Display Mode.

Activating / Deactivating the Alarm

- In Alarm Time display, press **TEMP/ALARM** (Ⓜ) to turn the alarm **ON** or **OFF**.
- When the alarm is activated, the alarm icon 🔔 will appear on the display.
- When the alarm rings, press any button (except **LIGHT/SNOOZE** Ⓜ) to stop the alarm for the day.
- The alarm will automatically activate again at the same time the next day.

Snooze Function

- When the alarm rings, press **LIGHT/SNOOZE** (Ⓜ) to activate the Snooze Feature.
- The Snooze indicator icon, represented by the letter “Zz”, will flash on the display.
- The alarm will pause and resume again after **5 minutes**.

Temperature

Temperature/Humidity Trend

Tendency arrows let you quickly see whether **temperature** and **humidity** are rising, steady, or falling. Updates occur every **1 hour**.

Temperature Trend:

- ↗: Risen more than 1 °C / 2 °F in the past hour
- →: Changed less than 1 °C / 2 °F in the past hour
- ↘: Fallen more than 1 °C / 2 °F in the past hour

Humidity Trend:

- ↗: Risen more than 3% in the past hour
- →: Changed less than 3% in the past hour
- ↘: Fallen more than 3% in the past hour

Indoor Comfort Index

The Indoor Comfort Index gives a simple pictorial display of comfort level, based on **indoor temperature** and **indoor humidity**:

Icon	Comfort Level
------	---------------



Too Cold



Comfortable



Too Hot

Pressure

Switching Pressure Modes

- In normal mode, press **BARO-/RCC** (Ⓜ) to switch between:
 - **Absolute Pressure** → The actual atmospheric pressure at your location.
 - **Relative Pressure** → Adjusted to sea level for easier comparison with weather reports.

Mode	Description
------	-------------

Absolute	Atmospheric pressure at your current location.
----------	------------------------------------------------

Relative	Atmospheric pressure adjusted to sea level.
----------	---------------------------------------------

Pressure Trend

Tendency arrows show if the pressure is rising, steady, or falling. Updates occur every **1 hour**.

- ↗: Pressure has risen by more than **2 hPa / 0.06 inHg** in the past hour
- → Pressure has changed by less than **2 hPa / 0.06 inHg** in the past hour
- ↘: Pressure has fallen by more than **2 hPa / 0.06 inHg** in the past hour

Wind

Wind Display

The **Wind Dial** shows:

- **Average / Gust Wind Speed** (digital reading in center)
- **Real-Time Wind Direction** (arrow on dial pointing to N, NE, E, etc.)

Selecting Wind Display Mode

- In Normal Display mode, press **WIND/+** (Ⓜ) to toggle between:
 - Current Average Wind Speed
 - Gust Wind Speed
 - Wind Direction

Rain

Selecting Rainfall Display Mode

- In Normal Display mode, press **RAIN** (Ⓜ) to toggle through:
 - Rain Rate
 - Rain Event
 - Rain Hourly
 - Rain Daily
 - Rain Weekly
 - Rain Monthly
 - Rain Total

Increments of Rain Definition

- **Rain Rate** → Current rainfall rate measured in the past hour.
- **Rain Event** → Continuous rain total; resets to **0** if rainfall is less than **10 mm (0.039 in)** over 24 hours.
- **Daily Rain** → Total rainfall since **midnight (00:00)**.
- **Weekly Rain** → Total rainfall for the current calendar week. Resets **Sunday at midnight** (Sunday–Saturday).
- **Monthly Rain** → Total rainfall for the current month. Resets on the **first day of the month**.
- **Total Rain** → Cumulative rainfall since the last manual reset.

Resetting the Total Rainfall Record

- In Normal Display mode, press and hold **RAIN** (Ⓜ) for 2+ seconds to reset the rain record.

NOTE: Resetting **Weekly Rain** also resets **Daily Rain**.

NOTE: Resetting **Monthly Rain** also resets **Daily and Weekly Rain**.

NOTE: Resetting **Total Rain** also resets **Monthly, Weekly, and Daily Rain**.

Weather

Weather Index

- Press **TEMP/▼** (Ⓜ) to cycle through:
 1. **Feels Like**
 2. **Heat Index**
 3. **Wind Chill**

Feels Like

- Calculates how the temperature *feels* outside.
- Factors in **wind speed, pressure, temperature, and humidity**.

Wind Chill

- Based on **temperature + wind speed**.
- Displays only if:
 - Temperature is **below 50°F (10°C)**, and
 - Wind speed is **above 4.8 km/h (3 mph)**.
- Otherwise shows "--.--".

Heat Index

- Calculated using **temperature + humidity** data.
- Shows how hot it feels under those conditions.

Dew Point

- The temperature at which air must cool (at constant pressure) for water vapor to condense.
- Represents the **moisture content in the air**.
- Calculated from temperature + humidity readings.

Weather Forecast

- The built-in barometer tracks **atmospheric pressure changes** to predict conditions.
- Displays one of **6 icons**:
 - Sunny
 - Partly Cloudy
 - Cloudy
 - Rainy
 - Stormy
 - Snowy

NOTE: Forecast accuracy is around **65–70%**.

NOTE: Predictions are **pressure-based** and may not always reflect the current conditions.

Ice Alert

- When outdoor temperature drops below **1°C (33.8°F)**, a **snowflake icon** ❄️ appears on the display.

MAX/MIN Values

- In Normal Display mode, press **MAX/MIN (Ⓜ)** to switch between **maximum and minimum values**.
- If no button is pressed for **10 seconds**, the display returns to normal automatically.

To View Accumulated MAX/MIN

- Works for: **Feels Like, Wind Chill, Heat Index, Dew Point, Outdoor Temperature**.
- When max values are shown:
 - Press **TEMP/▼ (Ⓣ)** to cycle:
Outdoor Temp → Feels Like → Wind Chill → Heat Index → Dew Point → Outdoor Temp.

Viewing MIN Values

- Press **TEMP/▼ (Ⓣ)** to cycle:
Outdoor Temp → Feels Like → Wind Chill → Heat Index → Dew Point → Outdoor Temp.

Wind Speed (Max Values)

- Press **WIND/+ (Ⓦ)** to switch between **Average** and **Gust** wind speeds.

Rain Values (Max Values)

- Press **RAIN (Ⓡ)** to cycle:
Rain Rate → Daily Rain → Weekly Rain → Monthly Rain.

Pressure Values

- **Max values:** Press **BARO/-** (14) to switch between **Absolute** and **Relative** pressure.
- **Min values:** Press **BARO/-** (14) to switch between **Absolute** and **Relative** pressure.

Indoor & Channel Sensors

- **Max values:** Press **CHANNEL** (17) to switch between **indoor and outdoor sensor(s)** temp/humidity.
- **Min values:** Press **CHANNEL** (17) for the same, but with min readings.

NOTE: If multiple channel sensors are paired, the display can show their **maximum and minimum temperatures and humidity**.

NOTE: If not paired, only the **indoor maximum and** minimum values are displayed.

Clearing MAX/MIN Data

- To clear **max values** → Press and hold **MAX/MIN** (16) for 2+ seconds while max is displayed.
- To clear **min values** → Press and hold **MAX/MIN** (16) for 2+ seconds while min is displayed.

HI/LO Alert Setting



Viewing Alerts

- In normal display mode, press **ALERT** (15) to toggle between **High alert** and **Low alert** values.

Setting Alerts

1. In normal mode, press and hold **ALERT** (15) for 2+ seconds → enters alert setting mode.
2. Use **WIND/+** (13) and **BARO/-** (14) to adjust the value up or down.
3. Press **TEMP/▼** (11) to turn the alert **on/off**.
4. Press **ALERT** (15) to confirm and move to the next setting.

Indicators

- **HI**  → High alert is active.
- **LO**  → Low alert is active.
- No icon → Alerts are disabled.

Hi/Lo Alert Setting Order

Indoor Alerts

- **Indoor Temp Hi:** -14.1°F to 122°F (-9.9°C to 50°C) → Default: 122°F (50°C)

- **Indoor Temp Lo:** -14.1°F (-9.9°C) → Default: -14.1°F (-9.9°C)
- **Indoor Humidity Hi:** 1–99% → Default: 80%
- **Indoor Humidity Lo:** 1–99% → Default: 40%

Outdoor Alerts

- **Outdoor Temp Hi:** -40°F to 158°F (-40°C to 70°C) → Default: 104°F (40°C)
- **Outdoor Temp Lo:** -40°F to 158°F → Default: 32°F (0°C)
- **Outdoor Humidity Hi:** 1–99% → Default: 80%
- **Outdoor Humidity Lo:** 1–99% → Default: 40%

Wind Alerts

- **High Avg Wind Speed:** 0–50 m/s (2–180 km/h, 1–111 mph, 1–97 knots, 0–60 bft)
→ Default: 17 m/s | 62 km/h | 38 mph | 33 knots | 20 bft
- **High Gust Alert:** Same ranges as above → Default same as above

Pressure Alert

- **Pressure Drop:** 1–10 hpa (0.03–0.3 inHg | 0.7–7.5 mmHg)
→ Default: 3 hpa | 0.09 inHg | 2.2 mmHg

Rain Alerts

- **High Rain Rate:** 1 mm/hr – 1000 mm/hr (0.04–39 in/hr) → Default: 101 mm/hr (4 in/hr)
- **High Daily Rain:** 1 mm – 1000 mm (0.03–39.37 in) → Default: 101 mm (4 in)

UV & Light Alerts

- **UV Index High:** 1–15 → Default: 10
- **Light Intensity High:** 1 Klux – 200 Klux (7–1580 W/m² | 0–185 Kfc)
→ Default: 100 Klux | 790 W/m² | 92 Kfc

Silencing Hi/Lo Alert Alarm

- Press **LIGHT/SNOOZE** (Ⓜ) to silence the alarm, or it will turn off automatically after 1 minute.

NOTE: Alarm sounds for 1 minute, followed by readings & alert icon flash.

NOTE: If it times out, the icon & readings will **continue to flash** until the values return to the normal range.

NOTE: The alarm re-triggers if the condition occurs again.

Backlight

- **With AC Adapter:** Backlight can stay on continuously.
- **Without an AC Adapter:** The backlight can only be turned on temporarily.
- **Controls:**
 - Press **LIGHT/SNOOZE (Ⓜ)** to toggle brightness (High/Low/Off).
 - Press again to turn the backlight on for **15 seconds temporarily**.

Factory Restart

- Restores the weather station to **“out of the box” condition**.
1. Remove all power (batteries + AC adapter) from both outdoor sensors and the console.
 2. Re-pair sensors by following the **“Setting Up the Weather Station”** steps.

Care and Maintenance

1. **Rain Gauge:**
 - Clean every **3 months**.
 - Rotate the funnel counterclockwise and lift to expose the mechanism.
 - Clean dirt, debris, and insects with a damp cloth.
 - For bugs, spray lightly with insecticide.
2. **Light Intensity/UV Sensor & Solar Panel:**
 - Clean with a damp cloth every **3 months**.
3. **Battery Replacement:**
 - Apply corrosion-preventive compound to battery terminals.

Low Battery Indicator

- Appears in the **outdoor temperature/humidity section** or **CH section** of the LCD console.
- Means the **wireless weather sensor batteries are low**.
- Replace **all batteries at the same time** for reliability.

Battery Safety Warnings

- Use the correct size and type of battery as recommended.
- Insert batteries with the correct polarity (+/-).
- Do not mix old and new batteries, or different types (such as alkaline, carbon-zinc, and rechargeable).
- Replace all batteries simultaneously.
- Remove batteries during long periods of non-use or when exhausted.
- Do not attempt to recharge non-rechargeable batteries.
- Do not dispose of batteries in fire — they may leak or explode.
- Keep batteries away from metal objects to prevent short circuits.
- Store batteries in a cool, dry place. Avoid exposure to extreme heat, humidity, or direct sunlight.
- Keep out of reach of children — batteries may be a choking hazard.
- Leaking batteries can cause chemical burns or damage to the device. Handle with care.
- Dispose of batteries safely and in accordance with local regulations.

Product Specifications

Weather Station	
General Specifications	
Dimensions	7.5 x 5 x 1.1 in/191.6 x 127 x 28.8 mm
Power Source	AC-AC 5V, 0.15A adapter included
Battery	3 x AAA batteries (not included)
Support Sensors	1 x 7-IN-1 sensor (included)
Time Function Specifications	
Time Display	HH:MM
Hour Format	12 hour or 24 hour
Date Display	DD/MM or MM/DD
Time Synchronization Method	Synchronizes with atomic clock
Time Zones	EST, NST, AST, HST, AKT, PST, MST, CST
DST	ON/OFF
Barometer Display & Functions Specifications	
Barometer Units	hPa, inHg and mmHg
Measuring Range	600 - 1100 hPa (relative setting range 930 - 1050hPa)
Accuracy	700 - 1100 hPa \pm 5 hPa / 600 - 696 hPa \pm 8 hPa 20.67 - 32.48 inHg \pm 0.15 inHg / 17.72 - 20.55 inHg \pm 0.24 inHg 525 - 825 mmHg \pm 3.8 mmHg / 450 - 522 mmHg \pm 6 mmHg Typical at 77°F (25°C)
Weather Forecast	Sunny, partly cloudy, cloudy, rainy, stormy and snowy
Display Mode	Current

Memory Mode	Daily Max/Min
Alert	Pressure change alert
Indoor/Outdoor Temperature Display & Function Specifications	
Temperature Unit	°F and °C
Indoor Display Range	-14.1°F to 122°F / -9.9°C to 50°C
Outdoor Display Range	-40°F to 158°F / -40°C to 70°C
In/Out Accuracy	68 to 75°F ± 1.8°F / 20 to 24°C ± 1°C 32 to 68°F ± 2.7°F, 75 to 104°F / 0 to 20°C, 24 to 40°C ± 1.5°C Others: ± 3.6°F / ± 2°C
Display Mode	Current
Memory Mode	Daily Max/Min
Alert	High/Low temperature alert
Indoor/Outdoor Humidity Display & Function Specifications	
Humidity Unit	%
Display Range	1-99%
In/Out Accuracy	40 - 80% RH ± 5% RH @ 77°F (25°C) Others: ± 8% RH @ 77°F (25°C)
Display Mode	Current
Memory Mode	Daily Max/Min
Alert	High/Low humidity alert
Wind Speed and Direction Display & Function Specification	
Wind Speed Unit	mph,m/s, km/h, knots

Display Range	0 – 112 mph, 50 m/s, 180 km/h, 97 knot
Speed Accuracy	< 5 m/s: ± 0.5 m/s > 5 m/s: ± 10% (whichever is greater)
Display Mode	Gust/average
Memory Mode	Daily gust/average
Alert	High wind speed alert (Gust/average)
Wind Direction	16 directions
Rain Display & Function Specifications	
Unit of Rainfall	Mm, in
Range of Rainfall	0 – 12,999 mm / 0 – 511.7 in
Accuracy of Rainfall	± 7%
Display Mode	Current
Memory Mode	Daily Max
Rainfall Display Mode	Hourly/daily/weekly/monthly/total rainfall
Alert	High daily rainfall alert
UV Index Display & Functions Specifications	
Display Range	0 - 16
Display Mode	Current
Memory Mode	Daily Max
Alert	High UVI Alert
Light Intensity Display & Function Specification	

Light Intensity Unit	Klux, Kfc and W/m2
Display Range	0 -200 Klux
Display Mode	Current
Memory Mode	Daily Max
Alert	High Light Intensity Alert
Weather Index Display & Function Specifications	
Weather Index mode	Feels like, wind chill, heat index and dew point
Display Mode	Current
Memory Mode	Daily Max/Min
Wireless 7-IN-1 Outdoor Sensor	
Dimensions	16 x 13.8 x 14.4 in / 408 x 350 x 367 mm
Main Power	3 x AA 1.5V Battery
Backup Power	Solar Power
Weather Data	Temperature, humidity, wind speed, wind direction, rainfall, UVI, and light intensity
RF Frequency	915 MHz
RF Transmission Range	492ft (150mm) (Open field)
Transmission Interval	Every 20 seconds for UV, light intensity, wind speed, temperature, humidity and rain data and wind direction data
Operation Temperature	-40°F to 140°F / -40°C to 60°C

FCC STATEMENT:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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