



**EN** ▀ User Manual

**Smart Weather Station with 7-in-1 Professional Sensor & Hygro-thermo Sensor**

**CZ** ▀ Uživatelská příručka

**Chytrá meteorologická stanice s profesionálním snímačem 7-v-1 a snímačem vlhkosti a teploty**

**SK** ▀ Používateľská príručka

**Inteligentná meteorologická stanica s profesionálnym snímačom 7-v-1 a snímačom vlhkosti a teploty**

**HU** ▀ Felhasználói kézikönyv

**Okos meteorológiai állomás professzionális 7 az 1-ben érzékelővel és páratartalom- és hőmérséklet-érezékelővel**

**PL** ▀ Podręcznik użytkownika

**Inteligentna stacja meteorologiczna z profesjonalnym czujnikiem 7w1 i czujnikiem temperatury i wilgotności**

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## ABOUT THIS USER'S MANUAL



This symbol represents a warning. To ensure safe use, always adhere to the instructions described in this documentation.



This symbol is followed by a user's tip.



## PRECAUTION & WARNING



- Keeping and reading the "User manual" is highly recommended. The manufacturer and supplier cannot accept any responsibility for any incorrect readings, export data lost and any consequences that occur should an inaccurate reading take place.
- This instruction manual contains useful information on the proper use and care of this product. Please read this manual through to fully understand and enjoy its features, and keep it handy for future use.
- Images shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.
- Technical specifications and user manual contents for this product are subject to change without notice.
- This product is not to be used for medical purposes or for public information
- Do not subject the unit to excessive force, shock, dust, temperature or humidity.
- Do not cover the ventilation holes with any items such as newspapers, curtains etc.
- Do not immerse the unit in water. If you spill liquid over it, dry it immediately with a soft, lint-free cloth.
- Do not clean the unit with abrasive or corrosive materials.
- Do not tamper with the unit's internal components. This invalidates the warranty.
- Placement of this product on certain types of wood may result in damage to its finishing for which manufacturer will not be responsible. Consult the furniture manufacturer's care instructions for information.
- Only use attachments / accessories specified by the manufacturer.
- This product is intended for use only with the adaptor provided: Manufacturer: DONGGUAN SHIJIE HUAXU ELECTRONICS FACTORY, Model: HX075-0501000-AG-001.
- The socket-outlet shall be installed near the equipment and easily be accessible.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- This product is not a toy. Keep out of reach of children.
- The console is intended to be used only indoors.
- Place the console at least 20cm from nearby persons.
- This device is only suitable for mounting at height < 2m.
- When disposing of this product, ensure it is collected separately for special treatment.
- **CAUTION!** Risk of explosion if battery is replaced by an incorrect type.
- Battery cannot be subjected to high or low extreme temperatures, low air pressure at high altitude during use, storage or transportation, if not, it may result in an explosion or the leakage of flammable liquid or gas.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Do not ingest the battery, Chemical Burn Hazard.
- This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
- Keep new and used batteries away from children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.

- If you think batteries might have been allowed or placed inside any part of the body, seek immediate medical attention.
- Only use fresh batteries. Do not mix new and old batteries.
- Dispose of used batteries according to the instructions.
- Replacement of a battery with an incorrect type that can result in an explosion or the leakage of flammable liquid or gas.

## INTRODUCTION

Thank you for selecting Tuya smart weather station. The console has built-in WI-FI module and through its smart system is compatible with Tuya IoT platform. You can view the IN / OUT temperature and humidity, wind, rain, UV and light intensity live data on the console, it can also display the other optional wireless thermo-hygro, leakage and air quality sensor(s) to monitor your home's comfort condition and air quality level. Through the Smart Life app, you can also check history records and trigger your Tuya devices in anywhere. The colorful LCD display shows the readings clearly and tidy, this system is a truly IoT system for you and your home.



## QUICK START GUIDE

The following quick start guide provides the necessary steps to install and operate the weather station, and upload to the internet, along with references to the pertinent sections.

Step	Description
1	Power up the wireless 7-in-1 sensor
2	Power up the console and pair with sensor

# PRE-INSTALLATION

## CHECKOUT

Before permanently install your weather station, we recommend the user to operate the weather station at a location which is easy to access to. This will allow you to get familiar with the weather station functions and calibration procedures, to ensure proper operation before installing it permanently.

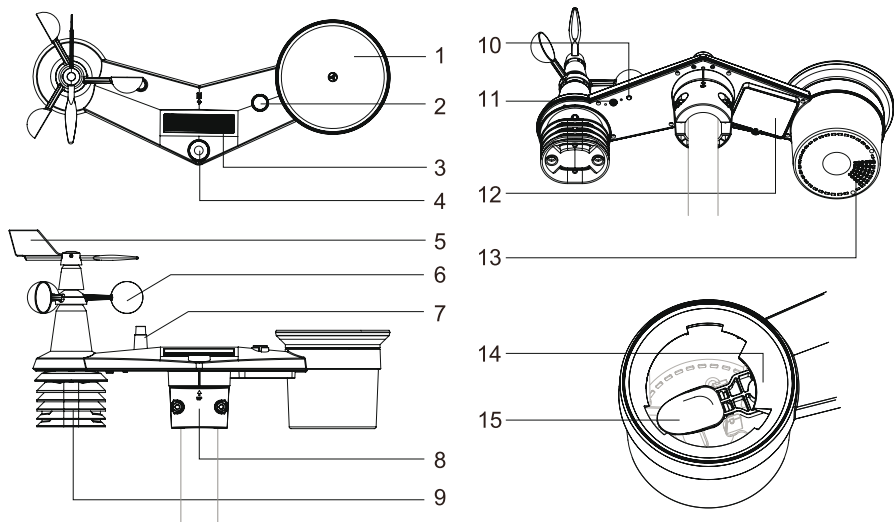
## SITE SELECTION

Before installing the sensor array, please consider the followings:

1. Batteries must be changed about every 2 to 2.5 years
2. Avoid radiant heat reflected from any adjacent buildings and structures. Ideally, the sensor array should be installed at 1.5m (5') from any building, structure, ground or roof top.
3. Choose an area of open space in direct sunlight without any obstruction of rain, wind, and sunlight.
4. Transmission range between sensor array and console could reach a distance of 150m (or 450 feet) at line of sight, providing there are no interfering obstacles in between or nearby such as trees, towers, or high voltage line. Check the reception signal quality to ensure good reception.
5. Household appliance such as fridge, lighting, dimmers may pose Electro-magnetic interference (EMI), while Radio Frequency Interference (RFI) from devices operating in the same frequency range may cause signal intermittent. Choose a location at least 1-2 meter (3-5 feet) away from these interference sources to ensure best reception.

# GETTING STARTED

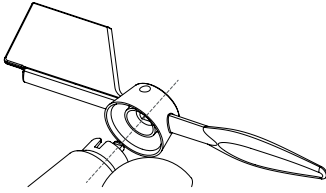
## WIRELESS 7-IN-1 SENSOR



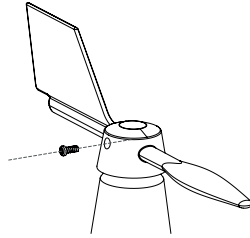
- |                       |   |                    |
|-----------------------|---|--------------------|
| 1. Rain collector     | 6. Wind cups                                | 11. <b>[RESET]</b> |
| 2. Balance indicator  | 7. Antenna                                  | 12. Battery door   |
| 3. Solar panel        | 8. Mounting clamp                           | 13. Drain holes    |
| 4. UVI / light sensor | 9. Radiation shield and thermo-hygro sensor | 14. Rain sensor    |
| 5. Wind vane          | 10. Red LED indicator                       | 15. Tipping bucket |

## INSTALL WIND VANE

With reference to photo below, **(Step 1)** locate and align the flat are on the wind vane shaft to the flat surface on the wind vane and push the vane onto the shaft. **(Step 2)** tighten the set screw with a precision screwdriver.



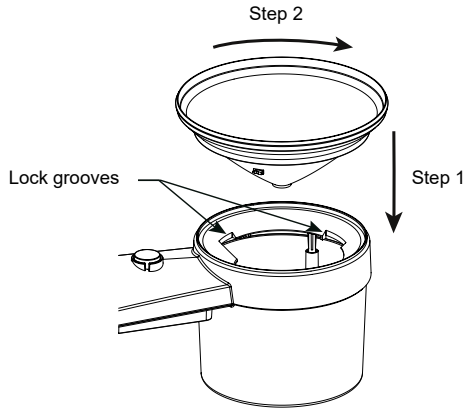
Step 1



Step 2

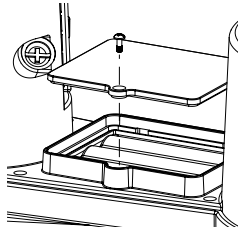
## Install rain gauge funnel

Install the rain gauge funnel and rotate clockwise to lock the funnel to the sensor array



## Install batteries

Unscrew the battery door at bottom of unit. Insert the 3 AA batteries (non-rechargeable) according to the +/- polarity indicated. The red LED indicator on the back of the sensor array will turn on, and then begin flashing every 12 seconds.

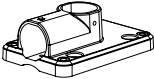

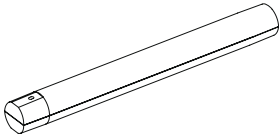








### NOTE:

We recommend using **non-rechargeable Lithium AA batteries** for cold weather climate, but normally Alkaline batteries are sufficient for use in most weather condition.

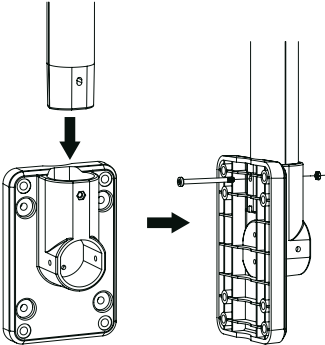
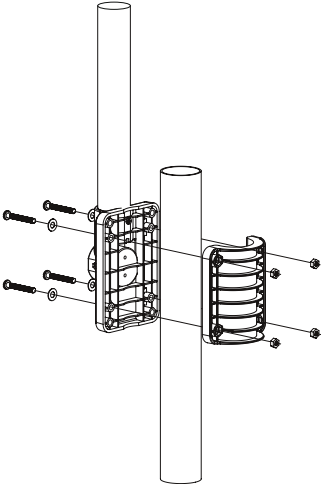
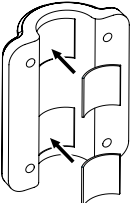
## Sensor array installation

### Mounting kit set

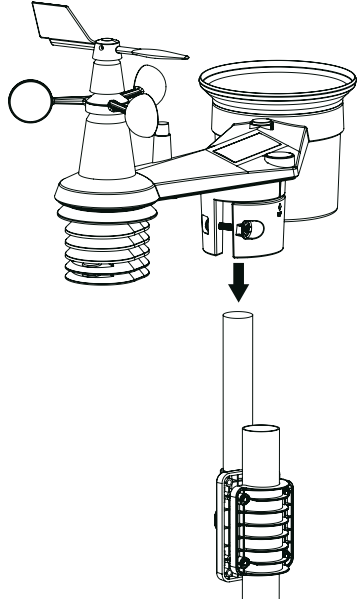
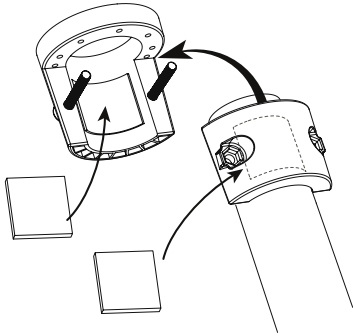
		
1. Pole mounting stand × 1	2. Mounting clamp × 1	3. Plastic pole × 1
		
4. screws × 4	5. Hex nuts × 4	6. Flat washers × 4
		
7. screw × 1	8. Hex nut × 1	9. Rubber pad × 4

### Plastic Mounting installation

1. Fasten the plastic pole onto your fix pole with mounting base, clamp, washers, screws and nuts. Following below 1a, 1b, 1c sequences:

<p>1a. Insert the plastic pole into the hole of the mounting stand, and then secure it with the screw and nut.</p>  <p>The diagram shows a plastic pole being inserted into a hole in a mounting stand. An arrow points to the next step where a screw is inserted through the stand into the pole, and a nut is placed on the other side of the pole to secure it.</p>	<p>1c. Fasten the mounting stand and clamp together onto a fix pole with 4 long screws and nuts.</p>  <p>The diagram shows a mounting stand and a mounting clamp being fastened together onto a vertical pole. Four screws are used to secure the stand to the pole, and four nuts are used to secure the clamp to the pole.</p>
<p>1b. Apply 2 rubber pads on the mounting clamp.</p>  <p>The diagram shows a mounting clamp with two arrows pointing to the locations where rubber pads should be applied.</p>	

2. Apply 2 rubber pads on the inner sides of the mounting base and clamp of the sensor-array, and loosely fasten them together.
3. Place the sensor-array over the mounting pole and align it to North direction before fastening the screws.



**NOTE:**

- Any metal object can attract lightning strikes, including your sensor-array mounting pole. Never install sensor-array in stormy days.
- If you want to install a sensor-array on a house or building, consult a licensed electrical engineer to ensure proper grounding. Direct lightning impact on a metal pole can damage or destroy your home.
- Installing the sensor at high location may result in personal injury or death. Perform as many initial inspections and operations as possible on the ground and in buildings or houses. Only install the sensor-array on clear, dry days.
- Ensure the sensor-array installation place is stable and no vibration.

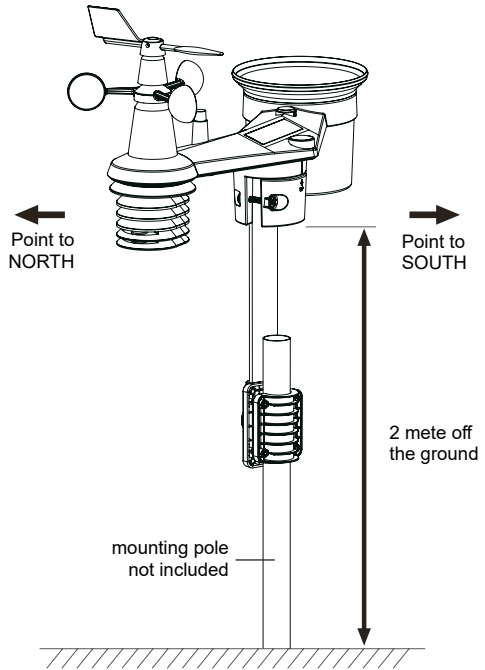


## Direction alignment

Install the wireless 7-in-1 sensor in an open location with no obstructions above and around the sensor for accurate rain and wind measurement.

Locate the North (N) marker on top of the 7-in-1 sensor and align the marker to point North upon final installation with a compass or GPS. Tighten the mounting bracket around a 30 to 40 mm diameter pole (not included) using two screw and nuts provided.

Use the bubble level on the 7-in-1 sensor to make sure the sensor is completely level for proper measurement of rainfall.



## Pointing the wireless 7-in-1 sensor to south

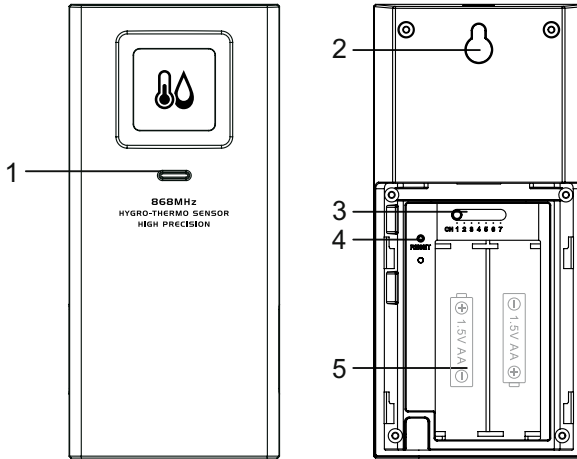
The outdoor 7-in-1 sensor is calibrated to point to North for the maximum accuracy. However, for the user's convenience (e.g. users in the Southern hemisphere), it is possible to use the sensor with the wind vane pointing to South.

1. Install the 7-in-1 wireless sensor with its wind meter end pointing to South.
2. Select "S" in set hemisphere step.
3. Follow the setup procedure to confirm and exit.

### **NOTE:**

*Changing the hemisphere setting will automatically switch the direction of the moon phase on the display.*

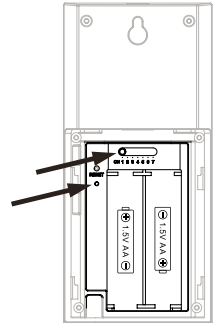
# WIRELESS HYGRO-THERMO SENSOR



1. Transmission status LED
2. Wall mounting holder
3. **[CHANNEL]** slide switch to assign the sensor to Channel 1,2,3,4,5,6 or 7
4. **[RESET]** key
5. Battery compartment

## Install wireless hygro-thermo sensor

1. Remove the battery door of the sensor.
2. Use the channel slide switch to set the channel number for the sensor (e.g. Channel 1)
3. Insert 2 × AA size batteries into the battery compartment according to the polarity marked on the battery compartment, and close the battery door.
4. The sensor is in synchronization mode, and can be registered to the console within the next few minutes. The transmission status LED will begin to flash every 1 minute.

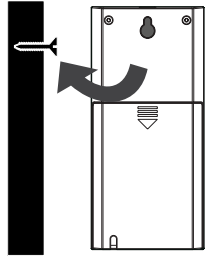


### NOTE:

- If you need to re-assign the sensor channel, slide the channel slide switch to the new channel position and press **[RESET]** key on the sensor for the new channel number to be effective.
- Avoid placing the sensors in direct sunlight, rain or snow.
- To avoid the sensor/s and console pairing failure during new console setup, please power up the sensor(s) first, and then press **[SENSOR/WiFi]** key on the main unit.

### Placing the wireless thermo-hygro sensor

Place a screw on the wall that you wish to hang the sensor on. Hang the sensor onto the screw by the wall mounting holder. You can also place the sensor on a table by itself.



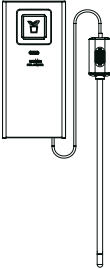
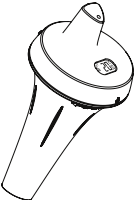
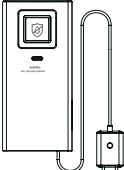


### SYNCHRONIZING ADDITIONAL SENSOR(S) (OPTIONAL)





The console can support 4 different air quality sensors, up to 3 wireless thermo-hygro sensors and up to 3 water leak sensors. Please contact your local retailer for details of difference sensors.

Some of these sensors are multi-channel. Before inserting the batteries, set the channel number if channel slide switch is located at back of sensors (inside battery compartment). For their operations please refer to the manuals that come with the products.

## Thermo-hygro and water leak optional sensors

No. of sensor support	Description	Image
Up to 3 sensors	Thermo-hygrometer sensor	
	High precision thermo-hygrometer sensor	
	Soil moisture and temperature sensor	
	Pool sensor	
Up to 3 sensors	Water leak sensor	

## Air quality Optional sensors

No. of sensor support	Description	Image
1 sensor	PM2.5 / 10 sensor	
1 sensor	CO <sub>2</sub> sensor	
1 sensor	HCHO with VOC sensor	
1 sensor	CO sensor	

**NOTE:**

*For air quality sensors pairing, you can assign the sensors in any channel. The console support to display one channel of each of air quality sensor.*

## RECOMMENDATION FOR BEST WIRELESS COMMUNICATION

Effective wireless communication is susceptible to noise interference in the environment, and distance and barriers between the sensor transmitter and the console.

1. Electromagnetic interference (EMI) – these may be generated by machinery, appliances, lighting, dimmers and computers, etc. So please keep your console 1 or 2 meters away from these items.
2. Radio-frequency interference (RFI) – if you have other devices operating on 868 / 915 / 917 MHz, you might experience communication intermittent. Please re-located your transmitter or console to avoid signal intermittent problem.
3. Distance. Path loss occurs naturally with distance. This device is rated to 150m (450 feet) by line of sight (in interference free environment and without barriers). However, typically you will get 30m (100 feet) maximum in real life installation, which includes passing through barriers.
4. Barriers. Radio signal are blocked by metal barriers such as aluminum cladding. Please align the sensor array and console to get them in clear line of sight through window if you have metal cladding.

The table below show a typical level of reduction in signal strength each time the signal passed through these building materials.

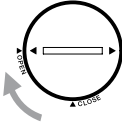
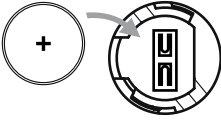
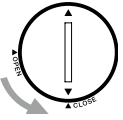
Materials	Signal strength reduction
Glass (untreated)	10 ~ 20%
Wood	10 ~ 30%
Plasterboard / drywall	20 ~ 40%
Brick	30 ~ 50%
Foil insulation	60 ~ 70%
Concrete wall	80 ~ 90%
Aluminum siding	100%
Metal wall	100%

Remarks: RF signal reduction for reference

## POWER UP THE CONSOLE

### Install backup battery and power up

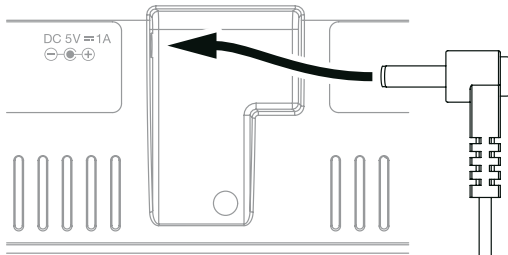
1. Backup battery provides power to the console to retain clock time and date, max/min records and calibration value.

Step 1	Step 2	Step 3
		
Remove the console battery door with coin	Insert a new CR2032 button cell battery	Replace the battery door.

#### NOTE:

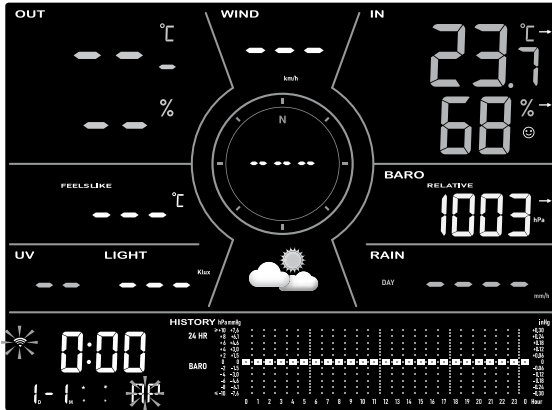
- The backup battery can backup: Time & Date and MAX/MIN records.
- The built-in memory can backup: calibration value and connection settings.
- Please always remove the backup battery if the device is not going to be used for a while. Please keep in mind that even when the device is not in use, certain settings, such as the clock, calibration and records in its memory, will still drain the backup battery.

2. Plug in the power adapter to power up the console.



## Setup the console

1. Once the console is power up, all the segments of the LCD will be shown.
2. The console will automatically enter AP mode and sensor synchronization mode automatically.



### NOTE:

*If no display appears when power up the console. You can press **[RESET]** by using a pointed object. If this process still not work, you can remove the backup battery and unplug the adaptor then re-power up the console again.*

## SYNCHRONIZING WIRELESS 7-IN-1 SENSOR AND HYGRO-THERMO SENSOR

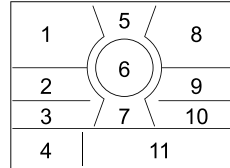
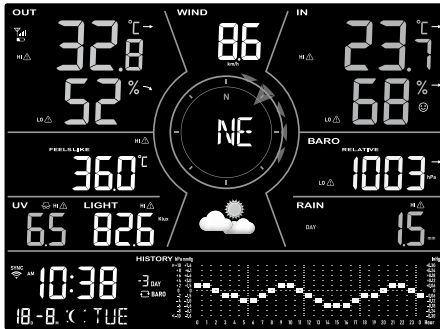
Immediately after power up the console, while still in synchronization mode, the 7-in-1 sensor and hygro-thermo sensor can be paired to the console automatically (as indicated by the flashing antenna  $\Upsilon$ ). User may also manually restart the synchronization mode by pressing the **[SENSOR / WI-FI]**. Once they are paired up, the sensor signal strength indicator and weather reading will appear on your console display.

## DATA CLEARING

During installation of the wireless 7-in-1 sensor, the sensors were likely to be triggered, resulting in erroneous rainfall and wind measurements. After the installation, user may clear out all the erroneous data from the display console. Simply press the **[RESET]** once to re-start the console.

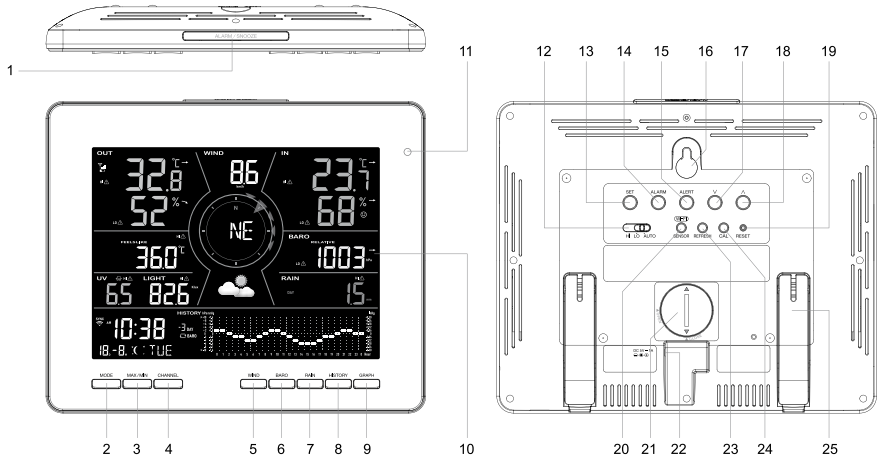
# DISPLAY CONSOLE FUNCTION AND OPERATION

## SCREEN DISPLAY



1. Outdoor temperature & humidity
2. Weather index and optional air quality sensor(s) readings (e.g. PM2.5 /10, CO<sub>2</sub>, HCHO + VOC, CO)
3. UV index & light intensity (SUN)
4. Time Calendar, moon phase & sunrise / Sunset
5. Wind speed
6. Wind direction, Beaufort & Gust
7. Weather forecast
8. Indoor / CH temperature & humidity
9. Barometer
10. Rainfall & rain rate
11. Weather history graph

## CONSOLE OVERVIEW



No.	Key / Part name	Description
1	<b>ALARM/SNOOZE</b>	Press to stop alarm sound.
2	<b>MODE</b>	Press to switch between feels like, dew point and optional air quality sensor readings.
3	<b>MAX / MIN</b>	Press to switch between past 24 hours maximum and minimum weather data records.
4	<b>CHANNEL</b>	Press to switch between indoor and channels readings.



No.	Key / Part name	Description
5	<b>WIND</b>	Press to switch between wind direction, wind gust, 10 minutes gust and Beaufort scale.
6	<b>BARO</b>	Switch between relative and absolute air pressure reading.
7	<b>RAIN</b>	Press to switch between rain rate and rainfall.
8	<b>HISTORY</b>	Press to switch between different time period of current graph.
9	<b>GRAPH</b>	Press to switch between different history graph.
10	<b>Display screen</b>	
11	<b>Light sensor for backlight</b>	
12	<b>BACKLIGHT</b>	Slide to select the backlight in Hi / Lo / Auto mode.
13	<b>SET</b>	Press to show sunrise / sunset time. Hold to enter time and date settings.
14	<b>ALARM</b>	Press to view alarm time. Hold to enter alarm settings.
15	<b>ALERT</b>	Press to view alert settings. Hold to enter alert settings.
16	<b>Wall mounting hole</b>	
17	V	Decrease the value in setting.
18	^	Increase the value in setting.
19	<b>RESET</b>	Press to reset the console. Hold 6 seconds to factory reset the console.
20	<b>SENSOR / WI-FI</b>	Press to start sensor synchronization (pairing). Hold 6 seconds to enter AP mode, vice versa.
21	<b>Battery compartment</b>	
22	<b>Power jack</b>	
23	<b>REFRESH</b>	Press to update the upload data and time synchronization.
24	<b>CAL</b>	Press to enter the calibration mode.
25	<b>Table stand</b>	

## CONSOLE FUNCTION AND OPERATION

### ABOUT THE LOCAL TIME

The console will automatically synchronize to your local time after successfully connected to app. You can manually set the date and time if device off-line.



## CONSOLE SETTINGS

### Setting mode

The setting mode can set the time, date, unit of measure and other functions.

Press and hold **[SET]** for 2 seconds to enter the setting Mode. In setting mode, press **[SET]** to proceed to the next setting step. Press **[V]** or **[Λ]** to change the value. Press and hold the key for quick-adjust. Please refer to following setting procedures below:

Step	Mode	Setting procedure
<b>[SET]</b> +2s	12/24 hour format	Press <b>[V]</b> or <b>[Λ]</b> to select 12 or 24 hour format.
<b>[SET]</b>	Time	Press <b>[V]</b> or <b>[Λ]</b> to adjust the minute / hour.
<b>[SET]</b>	Year	Press <b>[V]</b> or <b>[Λ]</b> to adjust the year.
<b>[SET]</b>	Date	Press <b>[V]</b> or <b>[Λ]</b> to adjust the day / month.
<b>[SET]</b>	M-D D-M	Press <b>[V]</b> or <b>[Λ]</b> to select „Month / Day“ or „Day / Month“ display format.
<b>[SET]</b>	Time sync ON/OFF	Press <b>[V]</b> or <b>[Λ]</b> to enable or disable time sync function. If you want to set the time manually, you should set time sync OFF.
<b>[SET]</b>	Hemisphere	Press <b>[V]</b> or <b>[Λ]</b> to select North / South hemisphere for moon phase.
<b>[SET]</b>	Weekday Language	Press <b>[V]</b> or <b>[Λ]</b> to select weekday display language.
<b>[SET]</b>	Temperature unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between °C and °F
<b>[SET]</b>	HCHO unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between ppb and µg/m <sup>3</sup>
<b>[SET]</b>	CO <sub>2</sub> unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between ppm and µg/m <sup>3</sup>
<b>[SET]</b>	CO unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between ppm and µg/m <sup>3</sup>
<b>[SET]</b>	Wind speed unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between m/s, km/h, knots and mph
<b>[SET]</b>	Air pressure unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between hPa, mmHg and inHg
<b>[SET]</b>	Light intensity unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between Klux, W/m <sup>2</sup> and Kfc
<b>[SET]</b>	Rain unit	Press <b>[V]</b> or <b>[Λ]</b> to change the unit between mm and inch
<b>[SET]</b>	Exit setting	


#### NOTE:

- Console will exit setting mode automatically, if no operation after 60 seconds.
- Press and hold **[SET]** for 2 seconds to exit the setting mode at any time.

### SETTING ALARM TIME

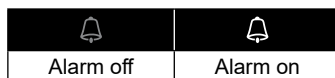
1. In normal time mode, press and hold **[ALARM]** for 2 seconds until the alarm time digit flashes to enter alarm time setting mode.
2. Press **[V]** or **[Λ]** to change the value. Press and hold the key for quick-adjust.
3. Press **[ALARM]** to save and exit the setting.

#### NOTE:

- When you turn on the time alarm the  icon will display on the LCD.
- The alarm function will turn on automatically once you set the alarm time.

## View and activate alarm time

1. In normal mode, press **[ALARM]** to show the alarm time for 5 seconds.
2. When the alarm time displays, press **[ALARM]** again to activate the alarm function.



## Suspend the time alarm

You can suspend the alarm sound by following operation:

- By pressing **[ALARM/SNOOZE]** to enter snooze that the alarm will sound again after 5 minutes.
- By press and hold **[ALARM/SNOOZE]** for 2 seconds to stop the alarm and will activate again in the next day.
- Auto-stop after 2 minutes alarming if without any operation and the alarm will activate again in the next day.
- By pressing **[ALARM]** to stop the alarm and the alarm will activate again in the next day.

## VIEW SUNRISE / SUNSET TIME

In normal mode you can view the local sunrise, sunset time in console as below sequence.

Step	Mode	Display	Display Screen
	Normal mode	Current time and date	
<b>[SET]</b>	Sunrise mode	Show the local sunrise time	
<b>[SET]</b>	Sunset normal	Show the local sunset time	
<b>[SET]</b>	Normal mode	Current time and date	

## VIEW YEAR

In normal mode you can view the year of today by press **[V]** or **[Λ]**.

## MOON PHASE

The moon phase is determined by time and date of the console. The following table explains the moon phase icons of the Northern and Southern Hemispheres.

Please refer to the about how to setup for the Southern Hemisphere.

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

## WIRELESS SENSOR SIGNAL RECEIVING

- The console display signal strength for the wireless sensor(s), as per table below:

No signal	Weak signal	Good signal

- If the signal has discontinued and does not recover within 15 minutes, the signal icon will disappear. The temperature and humidity will display "Er" for the corresponding channel.
- If the signal does not recover within 48 hours, the "Er" display will become permanent. You need to replace the batteries and then press **[SENSOR / WI-FI]** to pair up the sensor again.

## TREND INDICATOR

The trend indicator shows the temperature humidity and barometric pressure trends of changes in the forthcoming few minutes.



Rising



Steady



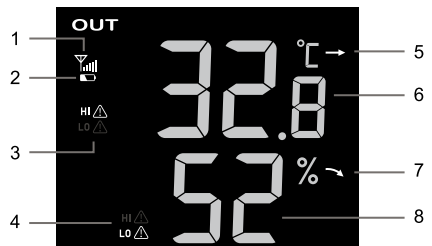
Falling

## VIEW OUTDOOR TEMPERATURE AND HUMIDITY

This console can display outdoor temperature and humidity reading with trend as below screen.


### Overview

- 7-in-1 sensor signal indicator to show the signal receiving strength
- 7-in-1 sensor array low battery indicator
- Outdoor temperature high / low alert indicator
- Outdoor humidity high / low alert indicator
- Outdoor temperature trend
- Outdoor temperature
- Outdoor humidity trend
- Outdoor humidity



## VIEW INDOOR, OPTIONAL THERMO-HYGRO AND LEAK CHANNELS

This console can display Indoor, CH1~3 optional thermo-hygro sensor readings and CH1~3 optional leak sensor status, In normal mode, you can press **[CH]** to switch between indoor and different wireless channels.

For auto-scroll function, just press and hold the **[CH]** for 3 seconds and the  icon will appear next to CH. The console will scroll the readings of all the sensors every 3 seconds.

### Overview

1. Indoor or optional thermo-hygro sensor icon with signal indicator to show the signal receiving strength
2. Indoor or optional thermo-hygro sensor low battery indicator
3. Channel auto loop icon
4. Temperature high / low alert indicator
5. Sensor type icon of optional sensor
6. Humidity high / low alert indicator
7. Water leak sensor status section
8. Temperature trend
9. Temperature reading
10. Humidity trend
11. Humidity reading
12. Comfort index indicator



### Water leak (optional leak sensor)

You can add up to 3 optional water Leak sensors.

The channel number(s) of the corresponding water leak sensor(s) added to the console will be shown with the **NO LEAKING** icon.



When water leaking is detected, the channel number of the sensor detecting the leaking will flash together the **LEAKING** icon.



#### NOTE:

*When low battery is detected, the channel number of the sensor detecting the low battery condition will flash once every 4 seconds.*

## BAROMETRIC PRESSURE

The atmospheric pressure is the pressure at any location of the earth caused by the weight of the column of air above it. One atmospheric pressure refers to the average pressure and gradually decreases as altitude increases. Meteorologists use barometers to measure atmospheric pressure. Because absolute atmospheric pressure decreases with altitude, meteorologist correct the pressure relative to sea-level conditions. Hence, your ABS pressure may read 1000 hPa at altitude of 300m, but the REL pressure is 1013 hPa.

To obtain accurate REL pressure for your area, consult your local official observatory or check weather website on internet for real time barometer conditions, and then adjust the relative pressure in calibration mode.

1. Relative or Absolute indicator
2. Barometric pressure trend
3. Barometric pressure reading



### Absolute or relative barometric pressure mode

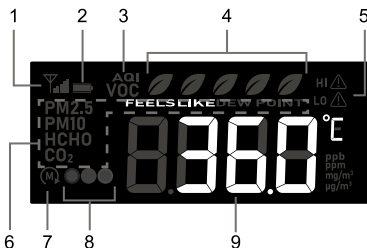
In normal mode, press **[BARO]** to switch between ABSOLUTE and RELATIVE barometric pressure.

## View feels like, dew point and optional sensor's reading

This console can also display feels like, dew point, and air pollutant readings of connected optional air quality sensor(s) data as below sequence by pressing the **[MODE]**.

### Overview

1. Signal strength indicator for different optional air sensor(s)
2. Battery level indicator for different optional air sensor(s)
3. AQI indicator
4. VOC level (🍃🍃🍃🍃:good 🍃:bad)
5. Current readings high / low alert icons
6. Current reading indicators
7. Auto loop icon
8. Pollutant level indicator
9. Feels like, Dew point or other optional sensors (PM2.5, PM10, HCHO, VOC, CO<sub>2</sub> and CO) reading



Press **[MODE]** to change the readings in following display sequence.

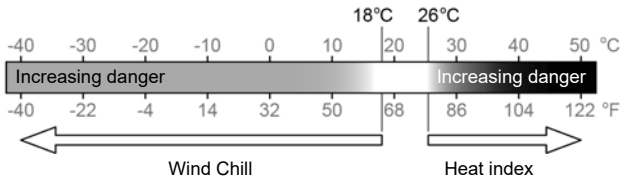
Step	Mode	Display Screen
	Feels like	
<b>[MODE]</b>	Dew point	
<b>[MODE]</b>	PM2.5 concentration/AQI	
Press [ <b>Δ</b> ] to toggle between concentration and AQI		
<b>[MODE]</b>	PM10 concentration/AQI	
Press [ <b>Δ</b> ] to toggle between concentration and AQI		
<b>[MODE]</b>	HCHO / VOC	
<b>[MODE]</b>	CO <sub>2</sub> concentration	
<b>[MODE]</b>	CO concentration	

You can also press and hold **[MODE]** with 2 seconds to show different mode with 4 seconds interval. During "Auto loop" mode, the **(M)** icon will shown on the display.



**Feels like**

Feels Like Temperature shows what the outdoor temperature will feel like. It's a collective mixture of Wind Chill factor (18°C or below) and the Heat Index (26°C or above). For temperatures in the region between 18.1°C to 25.9°C where both wind and humidity are less significant in affecting the temperature, the device will show the actual outdoor measured temperature as Feels Like Temperature.



**Dew point**

- The dew point is the temperature below which the water vapor in air at constant barometric pressure condenses into liquid water at the same rate at which it evaporates. The condensed water is called dew when it forms on a solid surface.
- The dew point temperature is determined by the temperature & humidity data from wireless 7-in-1 sensor.

**Pollutant level indicator table for optional sensors**



Type of pollutant of the optional sensors	High (Red)	Normal (Yellow)	Low (Green)
PM2.5	> 35 µg/m <sup>3</sup>	13 ~ 35 µg/m <sup>3</sup>	< 13 µg/m <sup>3</sup>
PM10	> 154 µg/m <sup>3</sup>	55 ~ 154 µg/m <sup>3</sup>	< 55 µg/m <sup>3</sup>
HCHO	> 250ppb	26 ~ 250ppb	< 26ppb
Carbon Dioxide (CO <sub>2</sub> )	> 1500ppm	701 ~ 1500ppm	< 701ppm
Carbon Monoxide (CO)	> 9.4ppm	4.5 ~ 9.4ppm	< 4.5ppm

# WIND

## Overview

1. High wind speed alert indicator
2. 10 minutes average / gust wind speed, Beaufort scale or wind direction (in degree).
3. Wind speed reading.
4. Real time wind direction indicator (16 points)
5. Past wind directions indicator of last 5 minutes.



## Wind direction, Gust and Beaufort Scale display

By default, wind direction is shown in 360 degrees. User can change the display by pressing [WIND] in following sequence

Wind direction (360 degrees)	Wind direction (16 point compass)	Gust	Gust in past 10 minutes	Beaufort scale

### NOTE:

- Wind speed is defined as the average wind speed in the 12 second update period
- Gust is defined as the peak wind speed in the 12 second update period

## Beaufort scale table

The Beaufort scale is an international scale of wind velocities ranging from 0 (calm) to 12 (Hurricane force).

Beaufort Scale	Description	Wind Speed	Land Condition
0	Calm	< 1 km/h	Calm. Smoke rises vertically.
		< 1 mph	
		< 1 knots	
		< 0.3 m/s	
1	Light air	1.1 ~ 5km/h	Smoke drift indicates wind direction. Leaves and wind vanes are stationary.
		1 ~ 3 mph	
		1 ~ 3 knots	
		0.3 ~ 1.5 m/s	
2	Light breeze	6 ~ 11 km/h	Wind felt on exposed skin. Leaves rustle. Wind vanes begin to move.
		4 ~ 7 mph	
		4 ~ 6 knots	
		1.6 ~ 3.3 m/s	



Beaufort Scale	Description	Wind Speed	Land Condition
3	Gentle breeze	12 ~ 19 km/h	Leaves and small twigs constantly moving, light flags extended.
		8 ~ 12 mph	
		7 ~ 10 knots	
		3.4 ~ 5.4 m/s	
4	Moderate breeze	20 ~ 28 km/h	Dust and loose paper raised. Small branches begin to move.
		13 ~ 17 mph	
		11 ~ 16 knots	
		5.5 ~ 7.9 m/s	
5	Fresh breeze	29 ~ 38 km/h	Branches of a moderate size move. Small trees in leaf begin to sway.
		18 ~ 24 mph	
		17 ~ 21 knots	
		8.0 ~ 10.7 m/s	
6	Strong breeze	39 ~ 49 km/h	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult. Empty plastic bins tip over.
		25 ~ 30 mph	
		22 ~ 27 knots	
		10.8 ~ 13.8 m/s	
7	High wind	50 ~ 61 km/h	Whole trees in motion. Effort needed to walk against the wind.
		31 ~ 38 mph	
		28 ~ 33 knots	
		13.9 ~ 17.1 m/s	
8	Gale	62 ~ 74 km/h	Some twigs broken from trees. Cars veer on road. Progress on foot is seriously impeded
		39 ~ 46 mph	
		34 ~ 40 knots	
		17.2 ~ 20.7 m/s	
9	Strong gale	75 ~ 88 km/h	Some branches break off trees, and some small trees blow over. Construction / temporary signs and barricades blow over.
		47 ~ 54 mph	
		41 ~ 47 knots	
		20.8 ~ 24.4 m/s	
10	Storm	89 ~ 102 km/h	Trees are broken off or uprooted, structural damage likely.
		55 ~ 63 mph	
		48 ~ 55 knots	
		24.5 ~ 28.4 m/s	
11	Violent storm	103 ~ 117 km/h	Widespread vegetation and structural damage likely.
		64 ~ 73 mph	
		56 ~ 63 knots	
		28.5 ~ 32.6 m/s	
12	Hurricane force	≥ 118 km/h	Severe widespread damage to vegetation and structures. Debris and unsecured objects are hurled about.
		≥ 74 mph	
		≥ 64 knots	
		≥ 32.7m/s	

# RAIN

## Overview

1. Period of rainfall and rain rate
2. Rain alert indicator
3. Reading of rainfall or rain rate



## The rain display mode

Press [RAIN] to toggle between:

- **RATE** - current rainfall rate (base on 10 min rain data)
- **DAY** - the total rainfall from midnight (default)
- **WEEK** - the total rainfall of the current week
- **MONTH** - the total rainfall of the current calendar month
- **TOTAL** - the total rainfall since the last reset

## Rain rate level definition

Level	1	2	3	4
Description	Light rain	Moderate rain	Heavy rain	Violent rain
Range (mm/h)	0.1 ~ 2.5	2.51 ~ 10.0	10.1 ~ 50.0	> 50.0

## To reset the total rainfall record

In normal mode, press and hold [RAIN] for 6 seconds to reset all the rainfall record.

### NOTE:




*Erroneous readings may occur during the installation of the 7-in-1 sensor array. Once the installation is completed and functioning correctly, it's advisable to clear all the data and start afresh.*

## Light intensity, uv index and exposure level

1. Recommended protection indicators
2. UV index
3. UV and light intensity alert indicator
4. Light intensity



## UV index vs exposure table

Exposure level	Low		Moderate			High		Very high			Extreme			
	1	2	3	4	5	6	7	8	9	10	11	12~16		
UV index	1	2	3	4	5	6	7	8	9	10	11	12~16		
Sunburn time	N/A		45 minutes			30 minutes		15 minutes			10 minutes			
Recommend- ed protection	N/A		Moderate or high UV level! Suggest to wear sunglasses, broad brim hat and long-sleeved clothing.						Very high or Extreme UV level! Suggest to wear sunglasses, broad brim hat and long-sleeved clothing, If you have to stay outdoors, make sure to seek shade.				  	

### NOTE:

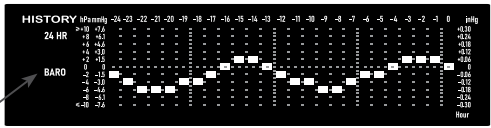
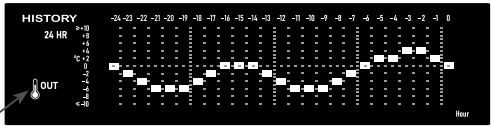
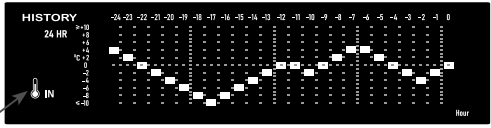
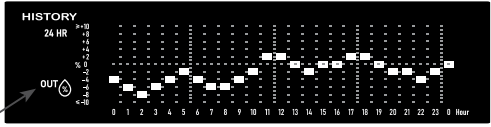
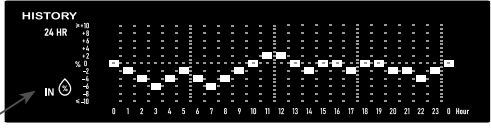
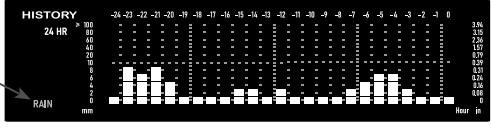
- The sunburn time is based on normal skin type, it is just a reference of UV strength. In general, the darker one's skin is, the longer (or more radiation) it takes to affect the skin.
- The light intensity function is for sunlight detection.


## History graph

User may view the change of readings on graphs for different parameters over different time periods. All the graphs are based on rate of change with respect to their current values respectively, except the rainfall graph which is based on actual readings.

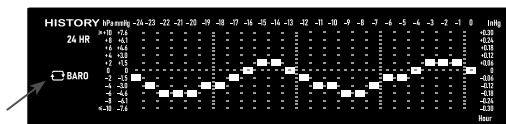
### Graphs for different parameters over fixed time period

In normal mode, press **[GRAPH]** to view the history graph of different parameters over past 24 hours (default) in following display sequence:

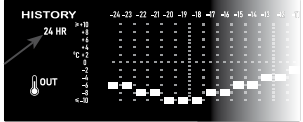
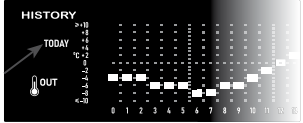
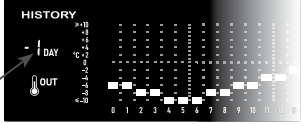
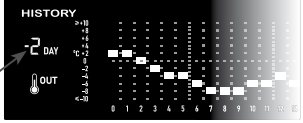
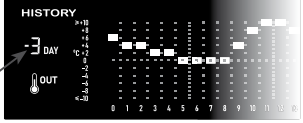
Step	Mode	Graph
	Air pressure	
<b>[GRAPH]</b>	Outdoor temperature	
<b>[GRAPH]</b>	Indoor temperature	
<b>[GRAPH]</b>	Outdoor humidity	
<b>[GRAPH]</b>	Indoor humidity	
<b>[GRAPH]</b>	Rainfall	
<b>[GRAPH]</b>	Air pressure	

For auto-loop function press and hold **[GRAPH]** for 2 seconds as indicated by a white  icon.

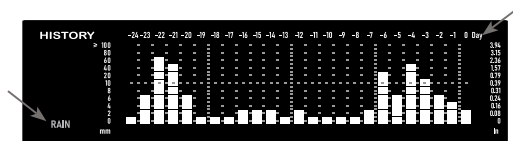
Different weather graphs will be auto loop at 4 seconds intervals. Press **[GRAPH]** once to deactivate.




In normal mode, press **[HISTORY]** to change the graph period in following sequence:

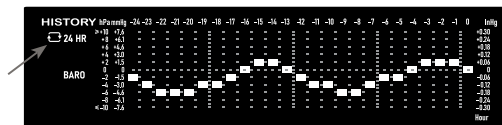
Step	Graph period	Description
	Past 24 hour	
<b>[HISTORY]</b>	Today	
<b>[HISTORY]</b>	-1 day (Yesterday)	
<b>[HISTORY]</b>	-2 day (2 days ago)	
<b>[HISTORY]</b>	-3 day (3 days ago)	
<b>[HISTORY]</b>	Past 24 hour	

For rainfall graph, user may also view the past 24 days record (after -3 days).



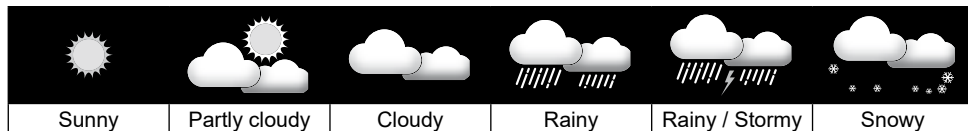
For auto-loop function, press and hold **[HISTORY]** for 2 seconds, as indicated by a yellow  icon. Different time periods of the chosen parameter will be auto loop at 4 seconds interval.

Press **[HISTORY]** once to deactivate.



## Weather forecast

The built-in barometer continually monitor atmosphere pressure. Based on the data collected, it can predict the weather conditions in the forthcoming 12~24 hours within a 30~50km (19~31 miles) radius.

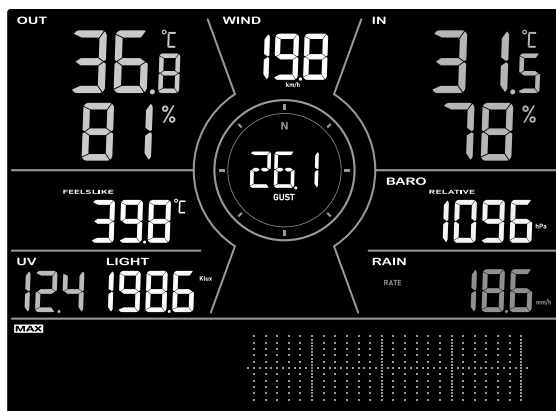


### NOTE:

- The accuracy of a general pressure-based weather forecast is about 70% to 75%.
- The weather forecast is reflecting the weather situation for next 12~24 hours, it may not necessarily reflect the current situation.
- The **Snowy** weather forecast is not based on the atmospheric pressure, but based on the temperature of outdoor. When the temperature is below -3°C (26°F), the Snowy weather icon will be displayed on the LCD.

## MAX / MIN records

The console can show the different on screen reading's past 24 hours MAX / MIN records in memory mode.



24 hours MAX record mode

## To view MAX / MIN

In normal mode, press **[MAX / MIN]** to check records in following sequence: MAX 24 hours MIN 24 hours.

In MAX / MIN mode:

1. Press **[MODE]** to switch between Feels like, Dew point and optional air pollutant's MAX / MIN records.
2. Press **[CH]** to switch between indoor and CH1~3 thermo-hygro MAX / MIN records.

## To clear the MAX / MIN records

During the MAX / MIN mode, press and hold **[MAX / MIN]** for 2 seconds to reset all MAX / MIN records.

## Weather alert setting

Weather Alert can alert you of certain weather conditions. Once the alert criterion is met, the alarm sound will activate and the LCD's alert icon will flash.

### To view, set and activate alert

In normal mode, press **[ALERT]** to display the weather Hi / Lo alert readings and status in below sequence:

Step	Mode	Setting method
<b>[ALERT]</b>	Outdoor temperature high alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Outdoor temperature low alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Outdoor humidity high alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Outdoor humidity low alert.	Hold 2 seconds to enter setting mode Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Average wind speed high alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Indoor temperature high alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Indoor temperature low alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Indoor humidity high alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Indoor humidity low alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Feels like high alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Feels like low alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Dew point high alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	Dew point low alert	Hold 2 seconds to enter setting mode. Press <b>[V]</b> or <b>[^]</b> to adjust the value. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	PM2.5 high alert	Hold 2 seconds to enter setting mode. Press <b>[SET]</b> to enable / disable alarm.
<b>[ALERT]</b>	PM10 high alert	Hold 2 seconds to enter setting mode. Press <b>[SET]</b> to enable / disable alarm.

Step	Mode	Setting method
[ALERT]	HCHO high alert	Hold 2 seconds to enter setting mode. Press [V] or [^] to adjust the value. Press [SET] to enable / disable alarm.
[ALERT]	CO <sub>2</sub> high alert	Hold 2 seconds to enter setting mode. Press [SET] to enable / disable alarm.
[ALERT]	Pressure drop	Hold 2 seconds to enter setting mode. Press [V] or [^] to adjust the value. Press [SET] to enable / disable alarm.
[ALERT]	UV high alert	Hold 2 seconds to enter setting mode. Press [V] or [^] to adjust the value. Press [SET] to enable / disable alarm.
[ALERT]	Light intensity high alert	Hold 2 seconds to enter setting mode. Press [V] or [^] to adjust the value. Press [SET] to enable / disable alarm.
[ALERT]	Rain rate high alert	Hold 2 seconds to enter setting mode. Press [V] or [^] to adjust the value. Press [SET] to enable / disable alarm.

**NOTE:**

- Alert function is not applicable for Carbon Monoxide (CO).
- PM2.5, PM10, HCHO and CO<sub>2</sub> alert can be trigger by the high(red) pollutant level.
- Console will exit alert setting mode automatically, if no operation after 60 seconds.

### Stop alert

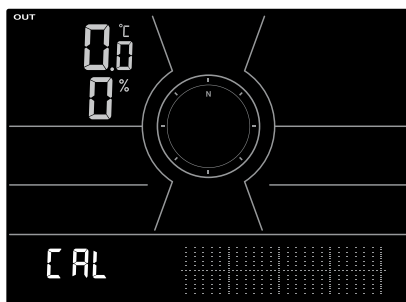
You can stop the alert sound by following operation:

- Auto-stop after 2 minutes alert.
- By pressing [ALARM/SNOOZE] to stop the alert and the alert icon keep flashing.

### CALIBRATION

The console is able to calibrate the weather and pollutant readings of the sensor(s):

1. In normal mode, press [CAL] to enter the calibration mode.



2. Press [SET] to select different parameter.
3. Press and hold [CAL] for 2 secs to enter adjust mode and the value will blinking.
4. While the value is blinking, press [V] or [^] to adjust the value. To reset the current input value, you can press and hold the [SET] with 2 sec.
5. Press [SET] to proceed with next parameter's calibration.
6. To return normal mode, press [CAL] once.

# OTHER FUNCTIONS



## BACKLIGHT

The console backlight brightness can be adjust by using the **[BACKLIGHT]** slide switch to select the appropriate brightness:

- Slide to the **[HI]** position for the brighter backlight.
- Slide to the **[LO]** position for the dimmer backlight.
- Slide to the **[AUTO]** position for the auto adjust back light that according to environment light level

## MAINTENANCE

### Battery replacement

When low battery indicator  or  appear on top of the sensors' reading, it indicates that the current sensor battery power is low respectively. Please replace with new batteries.

### Changing batteries and manual pairing of sensor

Whenever you changed the batteries of the wireless sensor, re-synchronization must be done manually.

1. Change all the batteries to new ones in the sensor.
2. Press **[SENSOR / WI-FI]** on the console to enter sensor Synchronization mode.
3. Console will re-register the sensor after its batteries are changed (about 1 minute).

### Remove wireless sensor(s) connection

In order to remove the sensor(s) connection, please follow below steps:

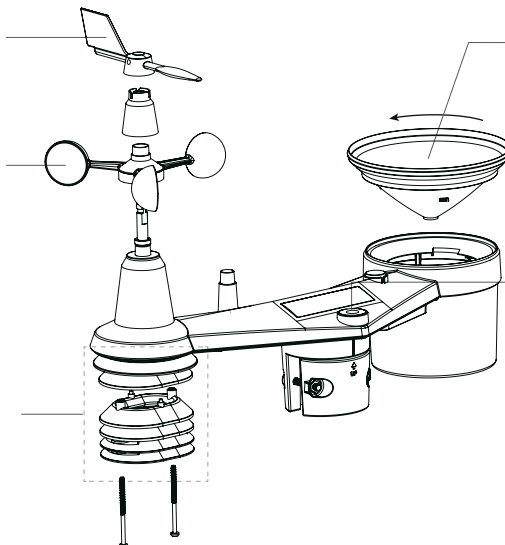
1. Remove sensor batteries.
2. Press **[SENSOR / WI-FI]** once to clear the sensor history.

## WIRELESS 7-IN-1 SENSOR ARRAY MAINTENANCE

**REPLACE THE WIND VANE**  
Unscrew and remove the wind vane for replacement

**REPLACE THE WIND CUP**  
1. Unscrew and remove the top cap  
2. Remove the wind cup for replacement

**CLEANING HYGRO-THERMO SENSOR**  
1. Remove the 2 screws at the bottom of the radiation shield.  
2. Gently pull out the shield.  
3. Carefully remove any dirt or insects on the sensor (do not let the sensors inside get wet).  
4. Clean the shield with water to remove any dirt or insects.  
5. Install all the parts back when they are clean and fully dried.



**CLEANING THE RAIN COLLECTOR**

1. Rotate the rain collector by turning it 30° anti-clockwise.
2. Gently remove the rain collector
3. Clean and remove any debris or insects.
4. Install the collector when it is clean and fully dried.

**CLEANING THE UV SENSOR AND CALIBRATION**

- For precision UV measurement, gently clean the UV sensor cover lens with damp micro-fiber cloth.
- Over time, the UV sensor will naturally degrade. The UV sensor can be calibrated with a utility grade UV meter, please refer to Calibration section in previous page for about the UV sensor calibration.



## TROUBLESHOOT

Problems	Solution
Ƴ and --- (Signal lost for 15 minutes) Ƴ and Er (Signal lost for 1 hour)	Make sure the console is placed away from other electronic Appliances that may interference with the wireless communication (TVs, computers, microwaves).
The Smart life app cannot pair up the console.	1. Check for WI-FI symbol on the display, it should be always on. 2. Make sure you connect to 2.4G band but not 5G band of your WI-FI router.
Temperature or humidity not accurate	1. Do not place your console or sensor close to the heat source 2. If the sensor still not accurate adjust the value in calibration mode.
Console display no response or malfunction	You can follow the below step to fix: 1. Remove the backup battery. 2. Unplug the DC power jack. 3. After 1 minute, plug the power jack again.

## SPECIFICATIONS

### CONSOLE

General specification	
Dimensions (W × H × D)	215 × 176.5 × 27mm (8.5 × 6.9 × 1.1 in)
Weight	599 g (with Battery, without Adapter)
Main power	DC 5V, 1A adaptor
Backup battery	CR2032 3V button cell
Operating temperature range	-5°C ~ 50°C
Operating Humidity range	RH 10~90% non-condensing
Support sensors (optional)	<ul style="list-style-type: none"> <li>– Up to 3 Wireless Thermo-hygro sensors</li> <li>– Up to 3 Wireless water leak sensors</li> <li>– 1 wireless PM2.5 / PM10 sensor</li> <li>– 1 wireless HCHO / VOC sensor</li> <li>– 1 wireless CO<sub>2</sub> sensor</li> <li>– 1 wireless CO sensor</li> </ul>
RF frequency (Depend on country version)	868Mhz
Time related function specification	
Time display	HH: MM
Hour format	12hr AM / PM or 24 hr
Date display	MM / DD, DD / MM or Year
Time synchronize method	Through Tuya to get the local time of the console location
Weekday languages	EN / DE / FR / ES / IT / NL / RU
WI-FI communication specification	
Standard	802.11 b/g/n
Operating frequency:	2.4GHz
App specification	
Support app	<ul style="list-style-type: none"> <li>– Tuya Smart</li> <li>– Smart Life</li> </ul>

Supported platform of app	Android smart phone iPhone
<b>Barometer</b>	
Barometer unit	hPa, inHg and mmHg
Accuracy	(700 ~ 1100hPa $\pm$ 5hPa) / (540 ~ 696hPa $\pm$ 8hPa) (20.67 ~ 32.48inHg $\pm$ 0.15inHg) / (15.95 ~ 20.55inHg $\pm$ 0.24inHg) (525 ~ 825mmHg $\pm$ 3.8mmHg) / (405 ~ 522mmHg $\pm$ 6mmHg) Typical at 25°C (77°F)
Resolution	1 hPa / inHg is 2 decimal place / mmHg is 1 decimal place
<b>Indoor temperature</b>	
Temperature unit	°C and °F
Accuracy	$\leq 0^{\circ}\text{C} \pm 2^{\circ}\text{C}$ ( $\leq 32^{\circ}\text{F} \pm 3.6^{\circ}\text{F}$ ) $> 0^{\circ}\text{C} \pm 1^{\circ}\text{C}$ ( $> 32^{\circ}\text{F} \pm 1.8^{\circ}\text{F}$ )
Resolution	°C / °F (1 decimal place)
<b>Indoor humidity</b>	
Humidity unit	%
Accuracy	1 ~ 9% RH $\pm$ 8% RH @ 25°C (77°F) 10 ~ 90% RH $\pm$ 5% RH @ 25°C (77°F) 91 ~ 99% RH $\pm$ 8% RH @ 25°C (77°F)
Resolution	1%
<b>Outdoor temperature</b>	
Temperature unit	°C and °F
Weather index mode	Feels like and Dew point
Feels like display range	-65 ~ 50°C
Dew point display range	-20 ~ 80°C
Accuracy	5.1 ~ 60°C $\pm$ 0.4°C (41.2 ~ 140°F $\pm$ 0.7°F) -19.9 ~ 5°C $\pm$ 1°C (-3.8 ~ 41°F $\pm$ 1.8°F) -40 ~ -20°C $\pm$ 1.5°C (-40 ~ -4°F $\pm$ 2.7°F)
Resolution	°C / °F (1 decimal place)
<b>Outdoor humidity</b>	
Humidity unit	%
Accuracy	1 ~ 20% RH $\pm$ 6.5% RH @ 25°C (77°F) 21 ~ 80% RH $\pm$ 3.5% RH @ 25°C (77°F) 81 ~ 99% RH $\pm$ 6.5% RH @ 25°C (77°F)
Resolution	1%
<b>Wind speed &amp; direction</b>	
Wind speed unit	mph, m/s, km/h and knots
Wind speed display range	0 ~ 112mph, 50m/s, 180km/h, 97knots
Resolution	mph, m/s, km/h and knots (1 decimal place)
Speed accuracy	< 5m/s: +/- 0.8m/s; > 5m/s: +/- 10% (whichever is greater)
Display mode	Gust / Average
Wind direction display mode	16 directions or 360 degree
<b>Rain</b>	
Unit for rainfall	mm and in
Unit for rain rate	mm/h and in/h
Accuracy	$\pm$ 7% or 1 tip
Range	0 ~ 19999mm (0 ~ 787.3 in)
Resolution	0.254mm (3 decimal place in mm)

Rain display mode	Rate / Hourly / Daily / Weekly / Monthly / Total rainfall
<b>UV index</b>	
Display range	0 ~ 16
Resolution	1 decimal place
<b>Light intensity</b>	
Light intensity unit	Klux, Kfc and W/m <sup>2</sup>
Display range	0 ~ 200Klux
Resolution	Klux, Kfc and W/m <sup>2</sup> (2 decimal place)

## WIRELESS 7-IN-1 SENSOR

Dimensions (W × H × D)	390 × 217 × 165 mm (15.4 × 8.5 × 6.5in) (not include pole and stand)
Weight	831 g (with pole & stand, without batteries)
Main power	3 × AA size 1.5V batteries (Non-rechargeable Lithium batteries recommended)
Weather data	Temperature, Humidity, Wind speed, Wind direction, Rainfall, UV and light intensity
RF frequency	868MHz
RF transmission range	150m (492 feet) straight distance
Transmission interval	12 seconds
Operating temperature range	-40 ~ 60°C (-40 ~ 140°F)
Operating humidity range	RH 1% to 99 % non-condensing

## WIRELESS THERMO-HYGROMETER SENSOR

Dimensions (W × H × D)	58 × 125 × 19 mm (2.3 × 4.9 × 0.7in)
Weight	144g (with Batteries)
Main power	2 × AA size 1.5V batteries (Alkaline batteries recommended)
Weather data	Temperature and Humidity
RF transmission range	150m (492 feet) straight distance
RF frequency (depend on country version)	868MHz
Transmission interval	60 seconds
Operating temperature range	-40 ~ 60°C (-40 ~ 140°F) Non-rechargeable Lithium batteries required
Operating humidity range	RH 1% to 99 % non-condensing
<b>CH (wireless sensor) Temperature</b>	
Temperature unit	°C and °F
Accuracy	-40 ~ 60°C ± 0.4°C (-40 ~ 140°F ± 0.7°F)
Resolution	°C / °F (1 decimal place)
<b>CH (wireless sensor) Humidity</b>	
Humidity unit	%
Accuracy	1 ~ 90% RH ± 2.5% RH @ 25°C (77°F) 90 ~ 99% RH ± 3.5% RH @ 25°C (77°F)
Resolution	1%

<b>Adapter technical specifications:</b>	
Manufacturer's name or trade mark, commercial registration number and address:	Dongguan Shijie Hua Xu Electronics Factory, No.200, Technology East Road, Shijie Town, Dongguan City, Guangdong P.R. China
Model identifier:	HX075-0501000-AG-001
Input voltage:	AC100 - 240V
Input AC frequency:	50/60Hz
Output voltage:	DC5.0V
Output current:	1.0A
Output power:	5.0W
Average active efficiency:	≥73.62%
Efficiency at low load (10 %):	64.93%
No-load power consumption:	≤0.01W

## INSTRUCTIONS AND INFORMATION REGARDING THE DISPOSAL OF USED PACKAGING MATERIALS

Dispose of packaging material at a public waste disposal site.

## DISPOSAL OF USED ELECTRICAL AND ELECTRONIC APPLIANCES



The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this product at your applicable collection point for the recycling of electrical & electronic equipment waste. Alternatively in some states of the European Union or other European states you may return your products to your local retailer when buying an equivalent new product. The correct disposal of this product will help save valuable natural resources and help in preventing the potential negative impact on the environment and human health, which could be caused as a result of improper liquidation of waste. Please ask your local authorities or the nearest waste collection centre for further details. The improper disposal of this type of waste may fall subject to national regulations for fines.

### For business entities in the European Union

If you wish to dispose of an electrical or electronic device, request the necessary information from your seller or supplier.

### Disposal in other countries outside the European Union

If you wish to dispose of this product, request the necessary information about the correct disposal method from local government departments or from your seller.



The product meets EU requirements.

Hereby, FAST ČR, a.s. declares that the radio equipment type SWS 16600 WiFi SH is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: [www.sencor.com](http://www.sencor.com)

Changes to the text, design and technical specifications may occur without prior notice and we reserve the right to make these changes.

Address of the manufacturer: FAST ČR, a.s., U Sanitasu 1621, 251 01 Říčany, Czech Republic

# SENCOR®

## EN Warranty conditions

**Warranty card is not a part of the device packaging.**

This product is warranted for the period of 24 months from the date of purchase to the end-user. Warranty is limited to the following conditions. Warranty is referred only to the customer goods using for common domestic use. The claim for service can be applied either at dealer's shop where the product was bought, or at below mentioned authorized service shops. The end-user is obligated to set up a claim immediately when the defects appeared but only till the end of warranty period. The end user is obligated to cooperate to certify the claiming defects. Only completed and clean (according to hygienic standards) product will be accepted. In case of eligible warranty claim the warranty period will be prolonged by the period from the date of claim application till the date of taking over the product by end-user, or the date the end-user is obligated to take it over. To obtain the service under this warranty, end-user is obligated to certify his claim with duly completed following documents: receipt, certificate of warranty, certificate of installation.

### **This warranty is void especially if apply as follows:**

- Defects which were put on sale.
- Wear-out or damage caused by common use.
- The product was damaged by unprofessional or wrong installation, used in contrary to the applicable instruction manual, used in contrary to legal enactment and common process of use or used for another purpose which has been designed for.
- The product was damaged by uncared-for or insufficient maintenance.
- The product was damaged by dirt, accident of force majeure (natural disaster, fire, and flood).
- Defects on functionality caused by low duality of signal, electromagnetic field interference etc.
- The product was mechanically damaged (e.g. broken button, fall).
- Damage caused by use of unsuitable media, fillings, expendable supplies (batteries) or by unsuitable working conditions (e.g. high temperatures, high humidity, quakes).
- Repair, modification or other failure action to the product by unauthorized person.
- End-user did not prove enough his right to claim (time and place of purchase).
- Data on presented documents differs from data on products.
- Cases when the claiming product cannot be indentified according to the presented documents (e.g. the serial number or the warranty seal has been damaged).

### **Manufacturer:**

FAST ČR, a.s., U Sanitasu 1621, Říčany 251 01, Czech Republic

Visit [www.sencor.com](http://www.sencor.com) for detailed information about authorized service centers.

The original version of the instructions is in the Czech language, other language versions are made by the appropriate translation.