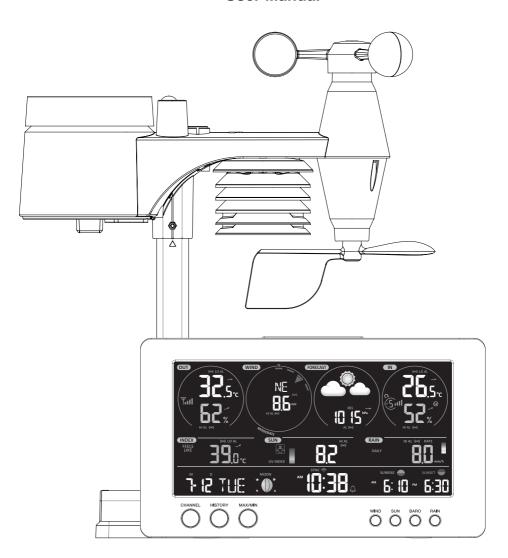


# WI-FI weather station with 7-In-1 professional sensor Model: YC9471 User Manual



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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.



#### **PRECAUTIONS**



- Keep 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 product is designed for use in the home only as indication of weather conditions. 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 fresh batteries. Do not mix new and old batteries.
- Only use attachments / accessories specified by the manufacturer.
- Images shown in this manual may differ from the actual display.
- When disposing of this product, ensure it is collected separately for special treatment.
- Dispose of used batteries according to the instructions.
- This product is intended for use only with the adaptor provided: Manufacturer: HUAXU Electronics Factory, Model: HX075-0501000-AB, HX075-0501000-AG-001 or HX075-050100-AX.
- 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.
- The socket-outlet shall be installed near the equipment and easily be accessible.
- 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.
- 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 the reach of children.
- The console is intended to be used only indoors.
- This product is intended for use only with the adaptor provided.
- The console shall be used with the adaptor that included in the packaging.
- Place the console at least 20cm from nearby persons.
- This device is only suitable for mounting at height < 2m.

#### INTRODUCTION

Thank you for selecting WI-FI weather station with 7-in-1 professional sensor. This system gathers and automatically uploads accurate and detail weather data to Weather Underground and Weathercloud website - the famous weather service which allows weather observers to upload their local weather data with automated personal weather stations (PWS) - at which you can access and upload your weather data freely. This product offers professional weather observers or serious weather enthusiasts robust performance with a wide range of options and sensors. You will get your own local forecast, high/lows, totals and averages for virtually all weather variables without using a PC/Mac.

The 7-in-1 sensor which measures outdoor temperature, humidity, wind, rain UV and Light together with up to 7 individual temperature humidity sensors, which can add to a sensor array of maximum 7 units continually, transmits weather data to the console. Both sensors are fully assembled and calibrated for your easy installation. They send data at a low power radio frequency to the console from up to 150m/450 feet away (line of sight).

In the console, high-speed processors are embedded to analyze the received weather data and these real-time data can be published to <u>Wunderground.com</u> and <u>weathercloud.net</u> through your home WI-FI router. The console can also synchronize with Internet time server to show high precision time and for its weather data time stamp. The color LCD display shows informative weather readings with advanced features, such as high/low alert alarm, different weather index, and MAX/MIN records. With calibration, sunrise / sunset and moon phase features, this system is truly a remarkably personal yet professional weather station for your own backyard.

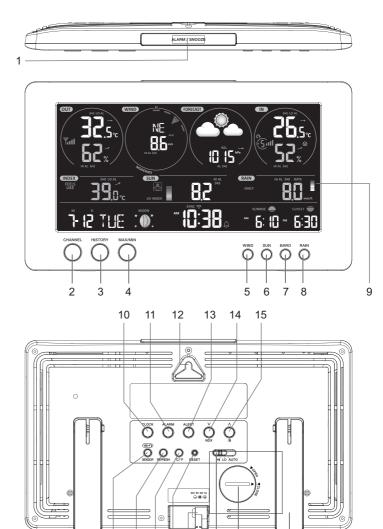
#### NOTE:

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.

#### **OVERVIEW**

#### **CONSOLE**

- 1. [ALARM/SNOOZE] key
- 2. [CHANNEL] key
- 3. [HISTORY] key
- 4. [MAX / MIN] key
- 5. **[ WIND ]** key
- 6. [SUN] key
- 7. **[BARO]** key
- 8. **[RAIN]** key 9. LCD display
- 10. **[ CLOCK ]** key
- 11. **[ ALARM ]** key
- 12. Wall mounting hole
- 13. [ ALERT ] key
- 14. [ NDX / ∨ ] Index key
- 15. [ ∧ / **③** ] key
- 16. [ SENSOR / WI-FI ] key
- 17. [ REFRESH ] key
- 18. [ °C / °F ] key
- 19. **[ RESET ]** key
- 20. Power jack
- 21. [ HI / LO / AUTO ] slide switch
- 22. Battery door
- 23. Table stand



16 17 18 19 20

21 22

23

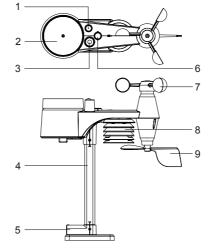
#### LCD DISPLAY

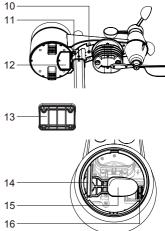


- 6 1. Wind direction & speed
  - Outdoor temperature & humidity
- 7 3. UV index & light intensity (SUN)
  - 4. Weather index
  - 5. Time Calendar, moon phase & sunrise /Sunset
  - Weather forecast & Barometer
  - 7. Indoor / Ch temperature & humidity
  - 8. Rainfall & Rain rate

#### **WIRELESS 7-IN-1 SENSOR**

- Antenna
   Rain collector
   UVI / light sensor
- 4. Mounting pole
- 5. Mounting base
- 6. Balance indicator
- 7. Wind cups
- 8. Radiation shield
- 9. Wind vane
- 10. Red LED indicator
- 11. **[ RESET ]** key
- 12. Battery door
- 13. Mounting clamp
- 14. Rain sensor15. Tipping bucket
- 16. Drain holes





#### INSTALLATION AND SETUP

Your console can pair up with one wireless 7-in-1 outdoor sensor and up to 7 wireless indoor sensors. (Optional)

#### **INSTALL WIRELESS 7-IN-1 SENSOR**

Your wireless 7-IN-1 sensor measures wind speed, wind direction, rainfall, UV index, light intensity, temperature and humidity for you. It's fully assembled and calibrated for your easy installation.

#### **BATTERY AND INSTALLATION**

Unscrew the battery door at bottom of unit and insert the batteries according to the +/- polarity indicated. Screw the battery door compartment on tightly.

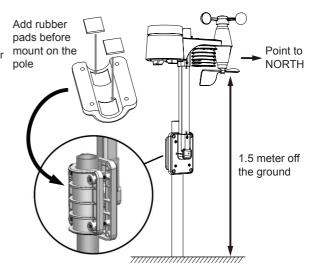


- Ensure the water tight O-ring is properly aligned in place to ensure water resistant.
- The red LED will begin flashing every 12 seconds.



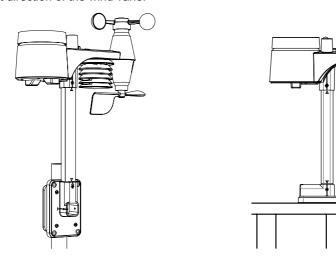
# ASSEMBLY THE STAND AND POLE Step 1 Insert the top side of the pole to the square hole of the weather sensor. i NOTE: Ensure the pole and sensor's indicator align. Step 2 Place the nut in the hexagon hole on the sensor, then insert the screw in other side and tighten it by the screw driver. Step 3 Insert the other side of the pole to the square hole of the plastic stand. NOTE: Ensure the pole and stand's indicator align. Step 4 Place the nut in the hexagon hole of the stand, then insert the screw in other side and then tighten it by the screw driver.

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. Install the sensor with the smaller end facing the North to properly orient the wind direction vane. Secure the mounting stand and clamps (included) to a post or pole, and allow minimum 1.5m off the ground.



#### MOUNTING GUIDELINES

- Install the wireless 7-IN-1 sensor at least 1.5m off the ground for better and more accurate wind measurements.
- 2. Choose an open area within 150 meters from the LCD console.
- Install the wireless 7-IN-1 sensor as level as possible to achieve accurate rain and wind measurements.
- 4. Mount the wireless 7-IN-1 sensor with the wind meter end pointing to the North to correctly orient direction of the wind vane.



A. Mounting on pole (Pole Diameter 1"~1.3") (25~33mm)

B. Mounting on the railing

# **SETUP THE CONSOLE**

Follow the procedure to setup the console connection with sensor(s) and WI-FI.

#### INSTALL THE BACKUP BATTERY

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

#### NOTE:

The backup battery can backup: Time & Date, Max/Min & Past 24 hours weather records, Alert setting values, offset value of weather data and sensor(s) channel history.

The built-in memory can backup: Router setting and Weather server setting

#### **POWER UP THE CONSOLE**

- 1. Plug the power adapter to power up the console.
- 2. Once the console power up, all the segments of the LCD will be shown.
- 3. The console will automatically start AP mode.

#### NOTE:

If no display appears on the LCD after you plug the adaptor, press [ RESET ] key by using a pointed object.

#### SET LCD DISPLAY VIEWING ANGLE

Press [ $\Lambda$ ] or [V] key in normal mode to adjust LCD viewing angle to fit table stand or wall mount situation.

#### **BUILT-IN MEMORY**

The console has built-in FLASH memory that holds the vital settings. These include:

- Time Zone, DST status, Time SYNC status, WI-FI and Weather server setting, Latitude / Longitude, Hemisphere setting, Calibration values, and Sensor ID of paired sensor(s)

#### **RESET AND FACTORY HARD RESET**

To reset the console and start again, press the [RESET] key once or remove the backup battery and then unplug the adapter. To resume factory settings and remove all data, press and hold the [RESET] key for 6 seconds.

#### **RESYNCHRONIZE SENSORS**

Press the [ SENSOR / WI-FI ] key once for the console to enter sensor Synchronization mode, and the console will re-register all the sensors that have already been registered to the it before. i.e. the console will not lose the connection of the sensors that you'd paired up before.

#### CHANGING BATTERIES AND MANUAL PAIRING OF SENSOR

Whenever you changed the batteries of the wireless indoor or 7-in-1 weather sensor, resynchronization must be done manually.

- 1. Change all the batteries to new ones in the sensor.
- 2. Press [ SENSOR / WI-FI ] key on the console to enter sensor synchronization mode.
- 3. Press [ RESET ] key on the wireless indoor or 7-in-1 weather sensor.

# SYNCHRONIZING ADDITIONAL WIRELESS SENSOR(S) (OPTIONAL)

The console can support up to 7 additional wireless sensors.

- 1. Press the [ SENSOR / WI-FI ] key once on the console to enter synchronization mode.
- 2. Press the [ RESET ] key on the new sensor, and wait for a few minutes for the new sensor to paired to the console.

#### NOTE:

- Channel number of the indoor sensor must not be duplicated among the sensors. Please refer to "INSTALL WIRELESS INDOOR SENSOR" for details

- This console can support different type of additional wireless sensor, e.g. soil moisture and pool sensor. If you would like to pair up additional sensors, please check with your retailer for more detail.

#### 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.

- Install the 7-IN-1 wireless sensor with its wind meter end pointing to South. (Please refer to INSTALLATION OF THE WIRELESS SENSOR section for mounting details)
- Select "S' in hemisphere section of the setup UI setup page. (Please refer to SETUP THE WEATHER SERVER CONNECTION section for setup details)
- 3. Press Apply icon to confirm and exit.

#### NOTE:

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

#### **CREATE WEATHER SERVER ACCOUNT & SETUP WI-FI CONNECTION**

The console can upload weather data to WUnderground and / or Weathercloud through WI-FI router, you can follow the step below to setup your device.

#### NOTE:

The Weather Underground and Weathercloud website are subjected to change without notice.

#### CREATE WEATHER UNDERGROUND ACCOUNT

 In <u>https://www.wunderground.com</u> click the "Join" on the top right corner to open the registration page. Follow the instructions to create your account.



#### NOTE:

Use the valid email address to register your account.

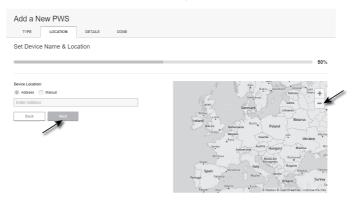
After you have created your account and completed the Email validation, please go back to the WUndergound web page to login. Then, click "My Profile" button on the top to open the drop-down menu and click "My Weather Station".



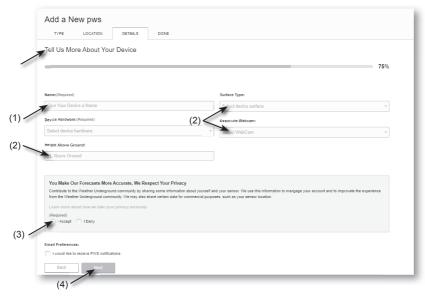
- In "My Weather Station" page bottom, press the "Add New Device" button to add your device.
- 4. In step "Select a Device Type", choose "Other" in the list, then press "Next".



5. In step "Set Device Name & Location", select your location on the map, then press "Next".



 Follow their instruction to enter your station information, in the Step "Tell Us More About Your Device", (1) enter a Name for your weather station. (2) fill in the other information (3) select "I Accept" to accept Weather underground's privacy terms, (4) click "Next" to create your station ID and key.



7. Jot down Your "Station ID" and "Station key" for the further setup step.



# **CREATE WEATHERCLOUD ACCOUNT**

 In <u>https://weathercloud.net</u> enter your information in "Join us today" section, then follow the instructions to create your account.



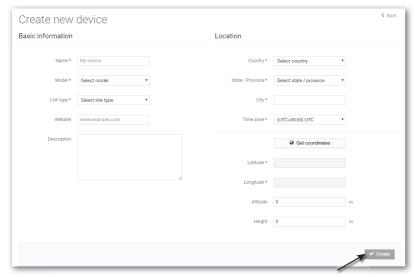
#### NOTE:

Use the valid email address to register your account.

Sign in weathercloud and then you will go the "Devices" page, click "+ New" to create new device.



 Enter all the information in Create new device page, for the Model\* selection box select the "W100 Series" under "CCL" section. For the Link type\* selection box select the "SETTINGS", Once you have completed, click Create.



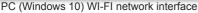
4. Jot down your ID and key for the further setup step.



#### **SETUP WI-FI CONNECTION**

- 1. When you power up the console for the first time, the console LCD will show flashing "AP" and " ? " icon to signify that it has entered AP (Access Point) mode, and is ready for WI-FI settings. User can also press and hold the [ SENSOR / WI-FI ] key for 6 seconds to enter AP mode manually.
- 2. Use the smart phone, tablet, or computer to connect the console through WI-FI.
- 3. In PC/Mac choose WI-FI network settings or In Android / iOS choose setting → WI-FI to select the console's SSID: *PWS-XXXXXX* in the list and it will need several second to connect.







Android WI-FI network interface

4. Once connected, enter the following IP address into your Internet browser's address bar, to access the console's web interface:

http://192.168.1.1

#### NOTE:

- Some browsers will treat 192.168.1.1 as a search, so make sure you include http:// header.
- Recommended browsers, such as the latest version of Chrome, Safari, Edge, Firefox or Opera.
- WI-FI network interface of PC/Mac or mobile subject to change.

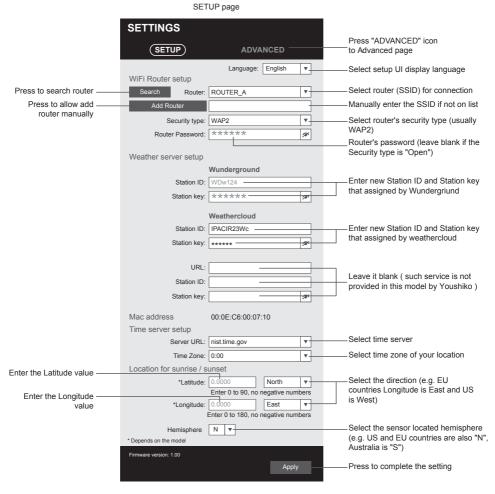
#### WI-FI CONNECTION STATUS

Below is the WI-FI icon status on the console LCD:



#### SETUP THE WEATHER SERVER CONNECTION

Enter the following information into the below web interface "SETUP" page to connect the console to weather server, If you do not want to use <u>Wunderground.com</u> or <u>Weathercloud.net</u>, please empty the station ID & key to ignore the data upload.

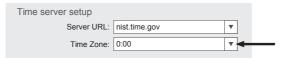


#### NOTE:

- When WI-FI setup is completed, your PC/Mac or mobile will resume your default WI-FI connection.
- During AP mode, you can press and hold the [ SENSOR / WI-FI ] key for 6 seconds to stop AP mode and the console will restore your previous setting.

#### TIME ZONE

To automatically set the time display to your time-zone, change the time zone in SETUP page of previous section from '0:00' (default) to your time zone (e.g.+1:00 for Germany).



#### TIME SERVER CONNECTION STATUS

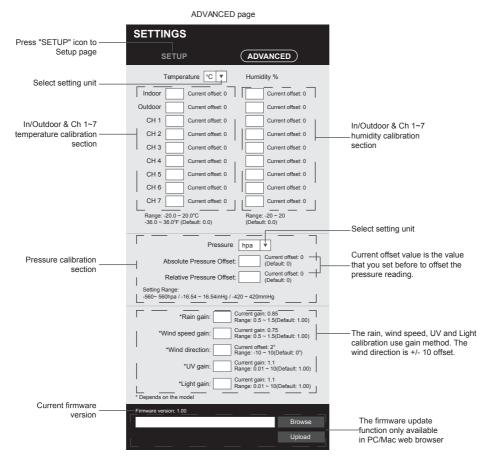
After the console has connected to the Internet, it will attempt to connect to the Internet time server to obtain the UTC time. Once the connection succeeds and the console time has been updated, the "SYNC" icon will appear on the LCD.



The time will automatically synchronize Internet time server at 12:00AM and 12:00PM per day. Also you can press the [REFRESH] key to get the Internet time manually within 1 minute.

#### ADVANCE SETTING IN WEB INTERFACE

Press "ADVANCED" key at the top of web interface to enter the advance setting page, this page allow you to set and view the calibration data of the console, as well as update the firmware version on PC/Mac web browser.



#### **CALIBRATION**

- 1. User can input the offset and/or gain values for different parameters while current offset and gain values are shown next to their corresponding blank.
- 2. Once completed, press Apply at the bottom of the SETUP page

The current offset value will show the previous value that you entered, please input the new value in the blank if any changes needed, the new value will effective once you press Apply icon in SETUP page.

#### NOTE:

 Calibration of most parameter is not required, with the exception of Relative Pressure, which must be calibrated to sea-level to account for altitude effects.

#### VIEW YOUR WEATHER DATA IN WUNDERGROUND

To view your weather station live data in a web browser (PC or mobile version), please visit <a href="http://www.wunderground.com">http://www.wunderground.com</a>, and then enter your "Station ID" in the searching box. Your weather data will show up on the next page. You can also login your account to view and download the recorded data of your weather station.



Another way to view your station is use the web browser URL bar, type below in the URL bar: https://www.wunderground.com/dashboard/pws/XXXX

Then replace the XXXX by your Weather underground station ID to view your station live data.

You can also check Weather Underground web site to learn more about their mobile App for Android and iOS.

#### **VIEWING YOUR WEATHER DATA IN WEATHERCLOUD**

- To view your weather station live data in a web browser (PC or mobile version), please visit https://weathercloud.net and sign in your own account.
- 2. Click the view icon inside the settings pull down menu of your station.



Click "Current", "Wind", "Evolution" or "Inside" icon to view the live data of your weather station.



#### FIRMWARE UPDATE

The console supports OTA firmware update capability. Its firmware may be updated over the air anytime (whenever necessary) through any web-browser on a PC/Mac with WI-FI connectivity. Update function, however, is not available through mobile/smart devices.



#### FIRMWARE UPDATE STEP

- 1. Download the latest version firmware to your PC/Mac.
- Set the Console into AP (access point) mode then connect the PC/Mac to the console (ref to "SETUP WI-FI CONNECTION" section in previous page).
- 3. Click the Browse in firmware update section and browse the location of the file you download in step 1. To update the WI-FI firmware, click the Browse in WI-FI firmware section.
- 4. Click the corresponding Upload to start transfer the firmware file to console.
- In the meantime, the console will execute the update automatically and will show the update progress on display (i.e. 100 is completion).

The update time is around 5 ~ 10 minutes





The console will stay in AP mode for you to check the firmware version and all the current setting.

#### IMPORTANT NOTE:

- Please keep connecting the power during the firmware update process.
- Please make sure your PC/Mac's WI-FI connection is stable.
- When the update process start, do not operate the PC/Mac and console until the update finished.
- During firmware update the console will stop upload data to the cloud server. It will reconnect to your WI-FI router and upload the data again once the firmware update succeed. If the console cannot connect to your router, please enter the SETUP page to setup again.
- After the firmware update, If the setup informations are missing, please input the setup information again.
- Firmware update process have potential risk, which cannot guarantee 100% success. If the update fail, please redo the above step to update again.

#### OTHER SETTING & FUNCTIONS OF THE CONSOLE

#### MANUAL CLOCK SETTING

This console is designed to obtain the UTC time by synchronize with the assigned Internet time server. If you want to use it off line, you can set the time and date manually. During the first time startup, press and hold the **[ SENSOR / WI-FI ]** key for 6 seconds and let the console back to normal mode.

- 1. In normal mode, press and hold [ CLOCK SET ] key for 2 seconds to enter setting.
- 2. The setting sequence: DST AUTO/OFF → Hour → Minute → 12/24 hour format → Year → Month → Day → M-D/D-M format → Time sync ON/OFF → weekday Language.
- 3. Press [ $\land$ ] or [ $\lor$ ] key to change the value. Press and hold the key for quick-adjust.
- 4. Press [ CLOCK SET ] key to save and exit the setting mode, or it will automatically exit the setting mode 60 seconds later without pressing any key.

#### NOTE:

- In normal mode, press [ CLOCK SET ] key to switch between year and date display.
- During the setting, you can back to normal model by press and hold [ CLOCK SET ] key for 2 seconds.

#### **DAYLIGHT SAVING TIME (DST)**

DST function is default "AUTO" (for EU or US version). If the current date on display is with in the summer daylight saving period, the time will be automatically adjusted forward by +1 hour, and DST icon will be shown on the LCD display.

#### **SETTING ALARM TIME**

- In normal time mode, press and hold [ALARM] key for 2 seconds until the alarm hour digit flashes to enter alarm time setting mode.
- Press [ ∧ ] or [ ∨ ] key to change the value. Press and hold the key for quick-adjust.
- 3. Press [ ALARM ] key again to step the setting value to Minute with the Minute digit flashing.
- Press [∧] or [∨] key to adjust the value of the flashing digit.
- 5. Press [ ALARM ] key to save and exit the setting.

#### NOTE:

- In alarm mode, the " A " icon will display on the LCD.
- The alarm function will turn on automatically once you set the alarm time.

#### **ACTIVATING ALARM AND TEMPERATURE PRE-ALARM FUNCTION**

- 1. In normal mode, press [ ALARM ] key to show the alarm time for 5 seconds.
- When the alarm time displays, press [ ALARM ] key again to activate the alarm function.Or press [ ALARM ] key twice to activate the alarm with ice pre-alarm function.



#### NOTE:

Once the ice pre-alert activates, the pre-set alarm will sound and ice-alert icon will flash 30 minutes earlier if the outdoor temperature is below -3°C.

When clock reach the alarm time, alarm sound will start.

Where it can be stopped by following operation:

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

#### NOTE:

- The snooze could be used continuously in 24 hours.
- During the snooze, the alarm icon " a " will keep flashing.

#### **SUNRISE & SUNSET TIME**

The console indicates your location's sunrise & sunset time by the time zone, latitude and longitude you entered. Please enter the correct information in the regarding settings. If the latitude and longitude values do not match the time zone, the sunrise & sunset time cannot be shown.



#### **MOON PHASE**

The moon phase is determined by the time, date and time zone. The following table explains the moon phase icons of the Northern and Southern Hemispheres. Please refer to POINTING THE WIRELESS 7-IN-1 SENSOR TO SOUTH section about how to setup for the Southern Hemispheres.

Northern Hemisphere	Moon Phase	Southern Hemisphere
* *	New Moon	* *
* )*	Waxing Crescent	*( *
* )*	First quarter	*( *
* * *	Waxing Gibbous	****
****	Full Moon	*****
*• *	Waning Gibbous	* * *
*( *	Third quarter	* )*
*( *	Waning Crescent	* )*

### **TEMPERATURE / HUMIDITY FUNCTION**

- The temperature and humidity reading are display on the outdoor and indoor (CH) section.
- Use the [ °C / °F] slide switch to select the temperature display unit.
- If temperature / humidity is below the measurement range, the reading will show "Lo". If temperature / humidity is above the measurement range, the reading will show "HI".

#### COMFORT INDICATION

The comfort indication is a pictorial indication based on indoor air temperature and humidity in an attempt to determine comfort level.







Too cold

Comfortable

Too hot

#### NOTE:

- Comfort indication can vary under the same temperature, depending on the humidity.
- There is no comfort indication when temperature is below 0°C (32°F) or over 60°C (140°F).

#### WIRELESS SENSOR SIGNAL RECEIVING

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

Outdoor 7-in-1 sensor	Yall	Y	Yul
Indoor channel sensor	CH	c <del>.</del>	النائ
	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] key to pair up the sensor
  again.

# VIEW THE OTHER CHANNELS (OPTIONAL FEATURE WITH ADD ON EXTRA SENSORS)

This console is capable to pair with a wireless 7-IN-1 sensor and up to 7 wireless indoor sensors. If you have 2 or more Indoor sensors, you can press [ CHANNEL ] key to switch between different wireless channels in normal mode, or press and hold [ CHANNEL ] key for 2 seconds to toggle auto-cycle mode to display the connected channels at 4 seconds interval.

During auto-cycle mode, the \text{ icon will show on the indoor channel section of the console's display. Press [ CHANNEL ] key to stop auto cycle and display the current channel.

#### TREND INDICATOR

The trend indicator shows the trends of changes in the forthcoming few minutes. The icon will appear in temperature, humidity, index and baro section.







WIND

WIND SPEED AND DIRECTION SECTION OVERVIEW Real time wind WIND direction indicator Past wind Wind direction directions indicator of last 5 minutes Average / gust HI AL ((\*) wind speed or Beaufort scale MODERATE Wind speed level

#### TO SET THE WIND SPEED UNIT AND DIRECTION DISPLAY FORMAT

- 1. In normal mode, press and hold [ WIND ] key for 2 seconds to enter into wind speed unit mode and the unit will flash. Press [ $\land$ ] or [ $\lor$ ] key to change the wind speed unit in this sequence: m/s → km/h → knots → mph
- 2. Press [ WIND ] key again to enter wind direction setting mode. The wind direction reading will flash, and then press  $[ \land ]$  or  $[ \lor ]$  key to select the display format between 360 degree or 16 direction.
- 3. Press [ WIND ] key again to return normal mode.

#### TO SELECT THE WIND DISPLAY MODE

indicator

In normal mode, press [ WIND ] key to switch between BEAUFORT scale, AVERAGE and **GUST** wind speed.

#### **BEAUFORT SCALE TABLE**

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

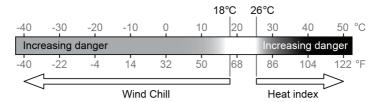
Beaufort Scale	Description	Wind Speed	Land Condition
		< 1 km/h	
0	Calm	< 1 mph	Calm. Smoke rises vertically.
	Callii	< 1 knots	Califf. Smoke fises vertically.
		< 0.3 m/s	
		1.1 ~ 5km/h	
1	Light oir	1 ~ 3 mph	Smoke drift indicates wind direction.
'	Light air	1 ~ 3 knots	Leaves and wind vanes are stationary.
		0.3 ~ 1.5 m/s	

		6 ~ 11 km/h			
			Wind felt an expensed altip. I agree mustle		
2	Light breeze	4 ~ 7 mph 4 ~ 6 knots	Wind felt on exposed skin. Leaves rustle. Wind vanes begin to move.		
		1.6 ~ 3.3 m/s			
		12 ~ 19 km/h			
3	Gentle breeze	8 ~ 12 mph	Leaves and small twigs constantly moving,		
		7 ~ 10 knots	light flags extended.		
		3.4 ~ 5.4 m/s			
		20 ~ 28 km/h			
4	Moderate	13 ~ 17 mph	Dust and loose paper raised. Small		
•	breeze	11 ~ 16 knots	branches begin to move.		
		5.5 ~ 7.9 m/s			
		29 ~ 38 km/h			
5	Fresh breeze	18 ~ 24 mph	Branches of a moderate size move.		
Ü	1 10311 510020	17 ~ 21 knots	Small trees in leaf begin to sway.		
		8.0 ~ 10.7 m/s			
		39 ~ 49 km/h	Large branches in motion Whictling board		
6	Strong broozo	25 ~ 30 mph	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes		
0	Strong breeze	22 ~ 27 knots	difficult. Empty plastic bins tip over.		
		10.8 ~ 13.8 m/s	difficult. Empty plastic biris tip over.		
		50 ~ 61 km/h			
7	I limb wind	31 ~ 38 mph	Whole trees in motion. Effort needed to		
7	High wind	28 ~ 33 knots	walk against the wind.		
		13.9 ~ 17.1 m/s			
		62 ~ 74 km/h			
•		39 ~ 46 mph	Some twigs broken from trees.		
8	Gale	34 ~ 40 knots	Cars veer on road. Progress on foot is		
		17.2 ~ 20.7 m/s	seriously impeded		
		75 ~ 88 km/h			
		47 ~ 54 mph	Some branches break off trees, and some		
9	Strong gale	41 ~ 47 knots	small trees blow over. Construction /		
		20.8 ~ 24.4 m/s	temporary signs and barricades blow over.		
		89 ~ 102 km/h			
		55 ~ 63 mph	Trees are broken off or uprooted,		
10	Storm	48 ~ 55 knots	structural damage likely.		
		24.5 ~ 28.4 m/s	or dotardr darriago intory.		
		103 ~ 117 km/h			
		64 ~ 73 mph	Widespread vegetation and structural		
11	Violent storm	56 ~ 63 knots	damage likely.		
		28.5 ~ 32.6 m/s	damage intery.		
		≥ 118 km/h			
			Severe widespread damage to vegetation		
12	Hurricane force	≥ 74 mph	and structures. Debris and unsecured		
		≥ 64 knots	objects are hurled about.		
		≥ 32.7m/s			

<u>WEATHER INDEX</u>
At the WEATHER INDEX section, you can press [ NDX ] Index key to view different weather index in this sequence: FEELS LIKE → DEW POINT → HEAT INDEX → WIND CHILL.

#### **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.

#### **HEAT INDEX**

The heat index which is determined by the wireless 7-IN-1 sensor's temperature & humidity data when the temperature is between 26°C (79°F) and 50°C (120°F).

Heat Index range	Warning	Explanation
27°C to 32°C (80°F to 90°F)	Caution	Possibility of heat exhaustion
33°C to 40°C (91°F to 105°F)	Extreme Caution	Possibility of heat dehydration
41°C to 54°C (106°F to 129°F)	Danger	Heat exhaustion likely
≥55°C (≥130°F)	Extreme Danger	Strong risk of dehydration / sun stroke

#### WIND CHILL

A combination of the wireless 7-IN-1 sensor's temperature and wind speed data determines the current wind chill factor.

#### 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.













Sunny Pa

Partly cloudy Cloudy

Rainv

rmy Snowy

#### 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.

#### **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. Since variation in atmospheric pressure greatly affected by weather, it is possible to forecast the weather by measuring the changes in pressure.



#### TO VIEW THE BAROMETRIC PRESSURE IN DIFFERENT UNIT

- 1. In normal mode, press and hold [BARO] key with 2 seconds enter unit setting mode.
- 2. Press [  $\land$  ] or [  $\lor$  ] key to change the unit in sequence: hPa  $\rightarrow$  inHg  $\rightarrow$  mmHg

#### TO SELECT ABSOLUTE OR RELATIVE BAROMETRIC PRESSURE MODE

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

#### **RAIN**

The **RAINFALL** section shows the rainfall or rain rate information.

#### TO SET THE RAINFALL UNIT

- 1. In normal mode, press and hold [ RAIN ] key for 2 seconds to enter unit setting mode.
- Press [ ∧ ] or [ ∨ ] key to toggle the unit between mm and in (rainfall) or mm/h and in/h (rain rate).
- 3. Press [ RAIN ] key to confirm and exit the setting.

#### TO SELECT THE RAINFALL DISPLAY MODE

Press [ RAIN ] key to toggle between:

- 1. HOURLY the total rainfall in the past hour
- 2. **DAILY** the total rainfall from midnight (default)
- 3. WEEKLY the total rainfall of the current week
- 4. MONTHLY- the total rainfall of the current calendar month
- 5. Total the total rainfall since the last reset
- 6. Rate Current rainfall rate (base on 10 min rain data)



Rain rate level

#### Rain rate level definition:



#### TO RESET THE TOTAL RAINFALL RECORD

In normal mode, press and hold [ HISTORY ] key for 2 seconds to reset all the rainfall record.

#### NOTE

To ensure to have correct data, please reset all the rainfall record when you reinstall your wireless 7-IN-1 sensor to other location.

#### LIGHT INTENSITY, UV INDEX & SUNBURN TIME

This section of display show the sunlight intensity, UV index and sunburn time. Press the [ SUN ] key to change the mode.

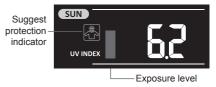
#### LIGHT INTENSITY MODE:

- During light intensity mode, press and hold [SUN] key for 2 seconds to enter unit setting
- Press [ ∧ ] or [ ∨ ] key change the unit in sequence: Klux → Kfc → W/m².
- 3. Press [ SUN ] key to confirm and exit the setting.

# UV INDEX MODE:

To show the current UV index detected by the outdoor sensor. Corresponding exposure level and suggested protection indicator are also displayed.







#### **SUNBURN TIME MODE:**

To show the recommended sunburn time according to current UV level.

#### **UV INDEX & SUNBURN TIME TABLE**

Exposure level	Low		Moderate			High		\	ery hig	h	Extr	eme
UV index	1	2	3	4	5	6	7	8	9	10	11	12~16
Sunburn time	N/	Ά	4	5 minut	es	30 m	inutes	15	5 minut	es	10 m	inutes
Recommended protection indicator	N/	'A	level! S sungla	long-sle	o wear		}	Sugges broad to clothing	gh or Ex st to wea orim hat g, If you rs, make	r sungla and long have to	isses, g-sleeved stay	

#### 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.

#### MAX / MIN DATA RECORD

The console can record the accumulated MAX / MIN weather data with the corresponding time stamp for you to easy review.

#### TO VIEW THE ACCUMULATED MAX / MIN

In normal mode, press [ MAX / MIN ] key to check MAX/MIN records in the following display sequence is: outdoor MAX temperature → outdoor MIN temperature → outdoor MAX humidity → outdoor MIN humidity → indoor or current channel MAX temperature → indoor or current channel MIN temperature → indoor or current channel MIN humidity → MAX average wind speed → MAX gust → MAX FEELS LIKE → MIN FEELS LIKE → MAX dew point → MIN dew point → MAX heat index → MIN heat index → MAX wind chill → MIN wind chill → MAX UV index → MAX light intensity → MAX relative pressure → MIN relative pressure → MAX absolute pressure → MIN absolute pressure → MAX rain rate.

#### TO CLEAR THE MAX/MIN RECORDS

Press and hold [ MAX / MIN ] key for 2 seconds to reset the current on display MAX or MIN records.

#### NOTE:

The LCD will also display the " MAX " / " MIN ", " HISTORY " icon, data records time & date.

#### **PAST 24 HOURS HISTORY DATA**

The console automatically stores the weather data of the past 24 hours.

- 1. Press [ HISTORY ] key to check the beginning of the current hour's weather data, e.g. the current time is 7:25 am, March 8, the display will show the data of 7:00am, March 8.
- 2. Press [ HISTORY ] key repeatedly to view older readings of the past 24 hours, e.g. 6:00am (Mar 8), 5:00am (Mar 8), ..., 10:00am (Mar 7), 9:00am (Mar 7), 8:00am (Mar 7)

#### NOTE:

The LCD will also display the " (HISTORY) " icon, history data records with time & date.

#### **WEATHER ALERT SETTING**

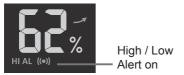
Weather Alert can alert you of certain weather conditions. Once the alert criterion is met, the alarm sound will activate and the alert icon on display will flash.

#### TO SET ALERT

1. Press [ALERT] to select and display the desired weather alert reading in the table below:

Alert Type	Setting Range	Display Section	Default
Outdoor Temperature High Alert	-40°C ~ 80°C		40°C
Outdoor Temperature Low Alert	-40 C ~ 60 C	Outdoor temperature &	0°C
Outdoor Humidity High Alert	1% ~ 99%	humidity	80%
Outdoor Humidity Low Alert	170 ~ 9970		40%
Indoor Current Channel			40°C
Temperature High Alert	-40°C ~ 80°C		40 C
Indoor Current Channel	-40 0 4 60 0		0°C
Temperature Low Alert		Indoor CH temperature	0.0
Indoor Current Channel		& humidity	80%
Humidity High Alert	1% ~ 99%		0070
Indoor Current Channel	170 0070		40%
Humidity Low Alert			10 70
Average Wind Speed	0.1m/s ~ 50m/s	Wind direction & speed	17.2m/s
Feels Like High Alert	-65°C ~ 50°C		20°C
Feels Like Low Alert	-05 0 ~ 50 0		0°C
Dew point High Alert	-40°C ~ 80°C	Weather index	10°C
Dew point Low Alert	-40 C ~ 60 C	vveather index	-10°C
Heat Index High Alert	26°C ~ 50°C		30°C
Wind Chill Low Alert	-65°C ~ 18°C		0°C
UV index High Alert	1 ~16	UV & light intensity	10
Light intensity High Alert	0.01 ~ 200.0Klux	Ov & light intensity	100Klux
Pressure Drop	1hPa ~ 10hPa	Barometer	3hPa
Rain rate	1mm ~ 1000mm	Rain rate	100mm

- 2. Under the current alert reading, press and hold [ALERT] key for 2 seconds to enter alert setting and the alert reading will flash.
- 3. Press  $[\land]$  or  $[\lor]$  key to adjust the value or press and hold the key to change rapidly.
- 4. Press [ ALERT ] key to confirm the value.
- 5. Press [ALARM] key to toggle the regarding alert on / off.
- 6. Press [ ALERT ] key to shift to next alert reading.





#### Alert on Alert off

7. Press any key on the front side to save alert on /off status and back to normal mode, or it will automatically back to normal mode after 30 seconds without pressing any key.

#### TO SILENCE THE ALERT ALARM

Press [ALARM / SNOOZE] key to silence the alert alarm or let the alarm automatically turn off after 2 minutes.

#### NOTE:

- Once the alert is triggered, the alarm will sound for 2 minutes and the related alert icon and readings will flash.
- If the alert alarm is automatically off after 2 minutes, the alert icon and readings will still keep flash until the weather reading is out of the alert range.
- The weather alert will sound again when the weather readings falls into the alert range again.

#### **BACK LIGHT**

The main unit back light can be adjust, using the [ HI / LO / AUTO ] sliding switch to select the appropriate brightness:

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

#### **DISPLAY CONTRAST**

Press [ \( \subset \) 1 key in normal mode to adjust LCD contrast in order to fit table stand or wall mount angle.

#### **MAINTENANCE**

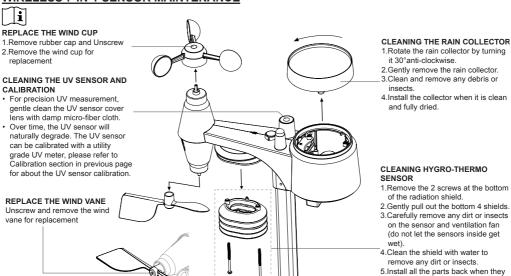
#### **BATTERY REPLACEMENT**

When low battery indicator " "" is displayed in OUT or CH section, it indicates that the outdoor 7-IN-1 sensor and/or current channel sensor battery power is low respectively. Please replace with new batteries.





#### **WIRELESS 7-IN-1 SENSOR MAINTENANCE**



are clean and fully dried.

#### **TROUBLESHOOT**

Problems	Solution
7-in-1 wireless sensor	Make sure the sensor is within the transmission range
is intermittent or no	2. If it still not work, reset the sensor and resynchronize with console.
connection	
Indoor wireless	Make sure the sensor is within the transmission range
sensor is intermittent	2. Make sure the channel displayed match to the channel selection
or no connection	on sensor
N. 14	3. If it still not work, reset the sensor and resynchronize with console.
No WI-FI connection	1. Check for WI-FI symbol on the display, it should be alway on.
	2. Make sure you connect to 2.4G band but not 5G band of your WI-
	FI router.
Data not reporting to	Ensure your Station ID and Station Key are correct.
Wunderground.com	2. Ensure the date and time is correct on the tablet . If incorrect, you
or weathercloud.net	may be reporting old data, not real time data.
	3. Ensure your time zone is set properly. If incorrect, you may be
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	reporting old data, not real time data.
Wunderground Precip. Accum. Total	<ol> <li>Ensure the time zone of the device on Wunderground set correctly</li> <li>Ensure the time zone and DST on your console are correct.</li> </ol>
graph offset 1 hour	3. If you located your station out of US time zone region in
reset time, during	Wunderground, the DST will be invalid. To solve this issue, please
summer daylight	turn off the DST function in console.
saving time	
Rainfall is not correct	Please keep the rain collector clean
	Make sure the tipping bucket inside can work smoothly
Temperature reading	1. Place the sensor in open area and at least 1.5m off the ground.
too high in the day	2. Make certain that the sensor is not too close to heat generating
time	sources or strictures, such as buildings, pavement, walls or air
	conditioning units.

# **SPECIFICATIONS**

CONSOLE	
General Specification	
Dimensions (W x H x D)	240 x 140 x 21mm (9.4 x 5.5 x 0.8 in) (without attach table stand)
Weight	260g (with batteries)
Main power	DC 5V, 1A adaptor (Manufacturer: HUAXU Electronics Factory, Model: HX075-0501000-AB)
Backup battery	CR2032
Operating temperature range	-5°C ~ 50°C
Operating Humidity range	10~90% RH
WI-FI Communication Specif	fication
Standard	802.11 b/g/n
Operating frequency:	2.4GHz
Supported router security type	WPA/WPA2, OPEN, WEP (WEP only support Hexadecimal password)
Supported device for setup UI	Built-in WI-FI with AP mode function smart devices or laptops e.g.: Android smart phone, Android pad, iPhone, iPad or PC/Mac computer.
Recommended web browser for setup UI	Web browsers that support HTML 5, such as the latest version of Chrome, Safari, Edge, Firefox or Opera.
Wireless Sensor side Comm	
	- 1 Wireless 7-IN-1 weather outdoor sensor
Support sensors	- Up to 7 Wireless hygro-thermo sensors (optional)
RF frequency (Depend on country version)	868Mhz (UK version)
RF transmission range	150m
Time Related Function Spec	ification
Time display	HH: MM
Hour format	12hr AM / PM or 24 hr
Date display	DD / MM or MM / DD
Time synchronize method	Through Internet time server to synchronize the UTC
Weekday languages	EN / DE / FR / ES / IT / NL / RU
Time Zone	+13 ~ -12 hour
DST	AUTO / OFF
Barometer (Note: Data detect by	console)
Barometer unit	hPa, inHg and mmHg
Measuring range	540 ~ 1100hPa
Accuracy	$ \begin{array}{l} (700 \sim 1100 \text{hPa} \pm 5 \text{hPa})  /  (540 \sim 696 \text{hPa} \pm 8 \text{hPa}) \\ (20.67 \sim 32.48 \text{inHg} \pm 0.15 \text{inHg})  /  (15.95 \sim 20.55 \text{inHg} \pm 0.24 \text{inHg}) \\ (525 \sim 825 \text{mmHg} \pm 3.8 \text{mmHg})  /  (405 \sim 522 \text{mmHg} \pm 6 \text{mmHg}) \\ \text{Typical at } 25^{\circ}\text{C}  (77^{\circ}\text{F}) \end{array} $
Resolution	1hPa / 0.01inHg / 0.1mmHg
Weather forecast	Sunny / Clear, Slightly Cloudy, Cloudy, Rainy, Rainy / Stormy and Snowy
Memory modes	Historical data of past 24 hours, daily Max / Min
Indoor Temperature (Note: Da	ata detect by console)
Temperature unit	°C and °F
Accuracy	<pre>&lt;0°C or &gt;40°C ± 2°C (&lt;32°F or &gt;104°F ± 3.6°F) 0~40°C ±1°C (32~104°F ± 1.8°F)</pre>
Resolution	°C / °F (1 decimal place)
Memory modes	Historical data of past 24 hours, daily Max / Min

Indoor Humidity (Note: Data	
Humidity unit	%
Accuracy	1 ~ 20% RH ± 6.5% RH @ 25°C (77°F) 21 ~ 80% RH ± 3.5% RH @ 25°C (77°F) 81 ~ 99% RH ± 6.5% RH @ 25°C (77°F)
Resolution	1%
	Historical data of past 24 hours, Max / Min
Memory modes Outdoor Tomporature (Net	• • • • • • • • • • • • • • • • • • • •
<u> </u>	e: Data detect by 7-in-1 sensor)
Temperature unit	°C and °F
Accuracy	5.1 ~ 60°C ± 0.4°C (41.2 ~ 140°F ± 0.7°F) -19.9 ~ 5°C ± 1°C (-3.8 ~ 41°F ± 1.8°F)
Accuracy	-40 ~ -20°C ± 1.5°C (-40 ~ -4°F ± 2.7°F)
Resolution	°C / °F (1 decimal place)
Memory modes	Historical data of past 24 hours, daily Max / Min
Outdoor Humidity (Note: D	
Humidity unit	%
Accuracy	1 ~ 20% RH ± 6.5% RH @ 25°C (77°F) 21 ~ 80% RH ± 3.5% RH @ 25°C (77°F) 81 ~ 99% RH ± 6.5% RH @ 25°C (77°F)
Resolution	1%
Memory modes	Historical data of past 24 hours, Max / Min
Wind Speed & Direction (N	Note: Data detect by 7-in-1 sensor)
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: +/- 0.5m/s; > 5m/s: +/- 6% (whichever is greater)
Display mode	Gust / Average
Memory modes	Historical Data of past 24 hours, Max Gust / Average
Wind direction display mode	16 directions or 360 degree
Rain (Note: Data detect by 7-i	n-1 sensor)
Unit for rainfall	mm and in
Unit for rain rate	mm/h and in/h
Accuracy	± 7% or 1 tip
Range	0 ~ 19999mm (0 ~ 787.3 in)
Resolution	0.4mm (0.0157in)
Memory modes	Historical Data of the past 24 hours, Max
Rain display mode	Rate / Hourly / Daily / Weekly / Monthly / Total rainfall
UV INDEX (Note: Data detect	
Display range	0 ~ 16
Resolution	1 decimal place
Display mode	UV index, sunburn time
Memory modes	Historical Data of past 24 hours, Max
LIGHT INTENSITY (Note: D	
Light intensity unit	Klux, Kfc and W/m <sup>2</sup>
Display range	0 ~ 200Klux
Resolution	Klux, Kfc and W/m² (2 decimal place)
Memory modes	Historical Data of past 24 hours, Max
<b>,</b>	

Weather Index (Note: Data detect by 7-in-1 sensor)		
Weather index mode	Feels like, Wind Chill, Heat Index and Dew point	
Feels like display range	-65 ~ 50°C	
Dew point display range	-20 ~ 80°C	
Heat index display range	26 ~ 50°C	
Wind chill display range	-65 ~ 18°C (wind speed >4.8km/h)	
Memory modes	Historical Data of past 24 hours, Max / Min	

# **WIRELESS 7-IN-1 SENSOR**

Dimensions (W x H x D)	343.5 x 393.5 x 136mm (13.5 x 15.5 x 5.35in) installed mounting
Weight	673g (with batteries)
Main power	3 x AA size 1.5V batteries ( Lithium batteries recommended)
Weather data	Temperature, Humidity, Wind speed, Wind direction, Rainfall, UV and light intensity
RF transmission range	150m
RF frequency (depend on country version)	868Mhz
Transmission interval	- 12 seconds for UV, light intensity, wind speed and wind direction data - 24 seconds for temperature, humidity and rain data
Operating temperature range	-40 ~ 60°C (-40 ~ 140°F) Lithium batteries required for low temperature
Operating humidity range	1 ~99% RH

All enquiries: service@youshiko.co.uk Made for Youshiko in PRC

