COLOUR WEATHER STATION
WITH WIRELESS SENSOR
Model: YC9481
User Manual

Thank you for selecting this delicate colour weather station. Utmost care has gone into the design and manufacture of the product. This manual is used for MSF version. Please read the instructions carefully according to the version you purchased and keep the manual well for future reference.

ABOUT THIS USER'S MANUAL

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

This symbol is followed by a user's tip.

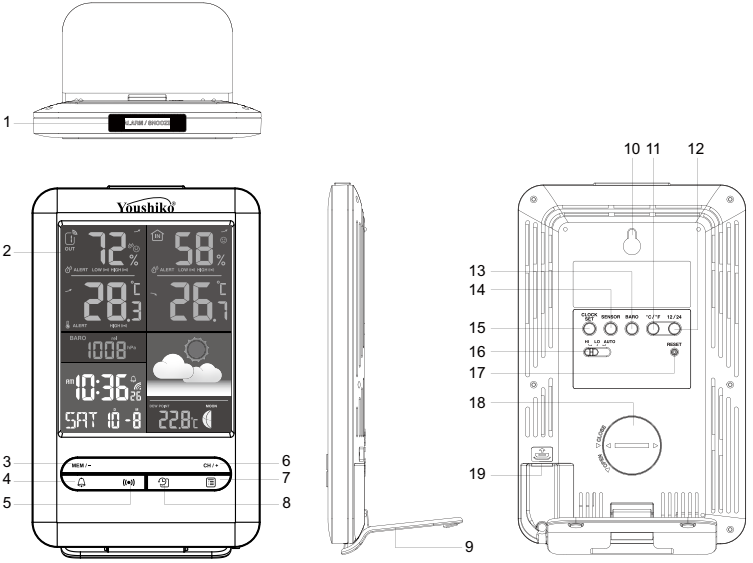
IMPORTANT NOTE

- Read and keep these instructions.
- 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.
- The socket outlet shall be installed near the equipment and shall be easily accessible.
- Only use fresh batteries. Do not mix new and old batteries.
- Do not dispose old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- Attention! Please dispose of used unit or batteries in an ecologically safe manner.
- Technical specifications and user manual contents for this product are subject to change without notice.
- The console shall be used with the adaptor that included in the packaging.
- Do not ingest 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 swallowed or placed inside any part of the body, seek immediate medical attention.
- **CAUTION!** Risk of explosion if the battery is replaced by an incorrect type.
- High or low extreme temperatures that a battery can be subjected to during use, storage or transportation;
- Low air pressure at high altitude.
- Replacement of a battery with an incorrect type that can defeat a safeguard.
- Disposal of a battery into fire or a hot over, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- This device is only suitable for mounting at height ≤ 2m.

TABLE OF CONTENTS

OVERVIEW

MAIN UNIT

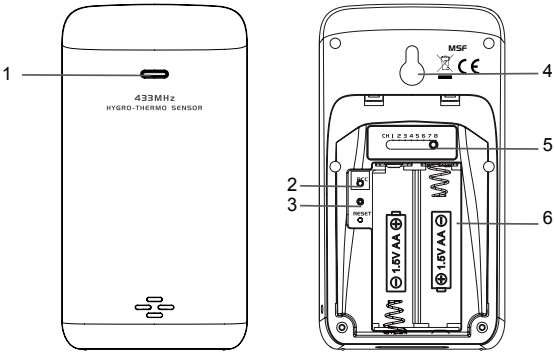


1. **[ALARM / SNOOZE]** key
2. LCD display
3. **[MEM / -]** key
4. **[ALARM]** key
5. **[ALERT]** key
6. **[CH / +]** key
7. **[INDEX]** key
8. **[HISTORY]** key
9. Table stand
10. Wall mount hole
11. **[°C / °F]** key
12. **[12 / 24]** key
13. **[BARO]** key
14. **[SENSOR]** key
15. **[CLOCK SET]** key
16. **[HI / LO / AUTO]** sliding switch
17. **[RESET]** key
18. Battery compartment
19. USB **power socket**

LCD DISPLAY

1. Outdoor humidity & temperature section
2. Baro reading section
3. Time & calendar
4. Indoor humidity & temperature section
5. Weather forecast icon
6. Weather index & moon phase section

WIRELESS HYGRO-THERMO SENSOR WITH RCC RECEIVE FUNCTION



1. Transmission status LED
2. **[RCC]** receive key
   - Press for RCC receiving.
3. **[RESET]** key
4. Wall mounting holder
5. **[CHANNEL]** slide switch
   - Assign the sensor to Channel 1,2,3,4,5,6,7 or 8.
6. Battery compartment
   - Accommodates 2 x AA size batteries.

GETTING STARTED

WIRELESS SENSOR

1. Remove the battery door.
2. Insert 2 x AA size batteries into the battery compartment. Make sure you insert them the right way according to the polarity information marked on the battery compartment.
3. Close the battery door.

NOTE:

- The bundled wireless sensor can receive the Radio controlled clock signal for main unit auto time setting. Just pair up the sensor with main unit to apply this function.
- Once the channel is assigned to a Wireless Hygro-Thermo sensor, you can only change it by removing the batteries or resetting the unit.
- Avoid placing the sensor in direct sunlight, rain or snow.

MAIN UNIT INSTALL BACKUP BATTERY

1. Remove the battery door of the main console.
2. Insert the new CR2032 battery as per the polarity information marked on the battery compartment
3. Close the battery door.

Power up console

1. Plug the power adapter USB plug to power up the main unit.
2. Once the main unit power up, it will enter normal time mode.

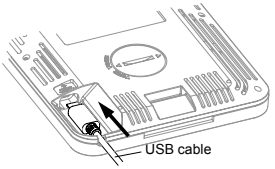
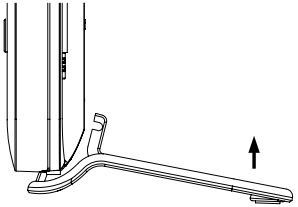
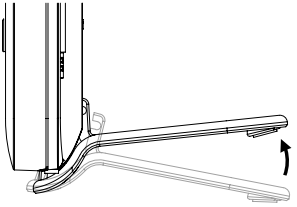


TABLE STAND INSTALLATION

The unit is designed for desktop or wall mount for easy viewing. follow the steps below to hook the table stand on the botton of the console.



Step 1



Step 2

NOTE:

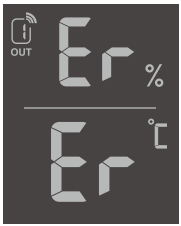
- If no display appears on the LCD, press the **[RESET]** key by using a metal wire.
- To avoid the wireless sensor and main unit pairing fail, please power up the sensor(s) first, and then press **[RESET]** key in main unit after sensor setup.
- You may not receive the signal immediately. Due to the atmospheric disturbance, the best reception often occurs during night time.

WIRELESS SENSOR SIGNAL RECEIVING

1. In normal mode, press **[SENSOR]** key once to start receiving the sensor signal of current on displaying channel. The signal icon will flash.
   For example, when **CH 2** is displayed, pressing **[SENSOR]** key will start receive for **CH 2** only.
2. The signal icon will flash until the reception succeeded. If no signal is received within 5 minutes the icon will disappear.

Receiving wireless signal after manual reset or the **[SENSOR]** key is pressed	
When waiting for signals, "--" will display in the readings field	
Good wireless sensor signal	

1. If the signal for the current channel has discontinued and does not recover within 1 hour, the signal icon will disappear. The temperature and humidity will display "**Er**" for the corresponding channel.
2. If the signal does not recover within 48 hours, the "**Er**" display will become permanent you need to replace the batteries of "**Er**" channel's sensors and then press **[SENSOR]** key to pair up the sensors of each "**Er**" channels again.



NOTE:

After replacing the batteries of the wireless sensor or the unit fails to receive wireless sensor signal of a specified channel. During the failed channel is displaying, press [SENSOR] key to manually receive that sensor signal again.

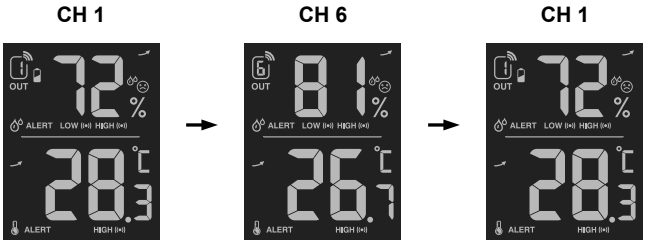
VIEW CHANNEL OF MULTIPLE WIRELESS SENSORS

This main unit can support up to 8 additional wireless sensor(s).

If you buy the additional wireless sensor(s) and paired with the main unit. Then, you can press [CH / +] key to switch the display between CH 1~8.

In normal mode, press and hold [C**H / +]** key for 2 seconds to enter auto-cycle mode, after a bi sounds, it will alternately displays the channels at 4 second intervals.

3. During auto-cycle mode, press **[CH / +]** key once to stop auto-cycle and display the current channel.
4. Using auto-cycle mode will only display the communicated channels. For example, when **CH 1** and **6** have received the signal from the corresponding sensor, press and hold **[CH / +]** key for 2 seconds will only toggle the readings of **CH 1** and **6**. Other channels will be neglected.



RECEPTION OF RADIO CONTROLLED SIGNAL

The time and date are radio-controlled. The current time and date are automatically synchronized with the signal that transmitted from RC station through wireless sensor. Please make sure the bundle wireless sensor is connected to the main unit.

RCC SIGNAL STRENGTH INDICATOR

The signal indicator shows signal receive status. Flashing wave segment means RCC signals are being received. The signal receiving status could be classified into 2 types:

No RCC signal received	Received RCC signal

NOTE:

- Every day the wireless sensor will automatically search for the time signal at 2:00 and 17:00.
- Always place the unit away from interfering sources such as TV set, computer, etc.
- Avoid placing the unit on or next to metal plate.
- Closed area such as airport basement, tower block or factory is not recommended.
- Do not start reception on a moving article such as vehicle or train.

DAYLIGHT SAVING TIME (DST)

This clock has been programmed to automatically switch when the daylight saving time is in effect. User can disable the DST function in time and calendar setting mode.

Note:

DST AUTO/OFF setting only available when RCC function is ON.

TIME AND CALENDAR SETTING

1. In normal mode, press and hold **[CLOCK SET]** key for 2 seconds to enter date and time setting mode.
2. Press **[CH / +]** or **[MEM / -]** key to adjust the setting.
3. Press **[CLOCK SET]** key to enter the next setting
4. The setting sequence: 12/24H ➡ hour ➡ minute ➡ second ➡ year ➡ DM/MD ➡ month ➡ day ➡ time offset ➡ weekday language ➡ RCC ON/OFF ➡ DST AUTO / OFF
5. When you complete the setting, press **[CLOCK SET]** key or leave the unit for 60 seconds to return to normal mode.

NOTE:

DST AUTO/OFF setting only available when RCC function is ON.

12/24H setting	 
Hour/Minute/ Second setting	  
Year setting	
Month/Day setting	 **D/M**  **M/D**
Month/day setting	 **M/**  **D**
Time offset setting	 00H ➡ 01H...23H ➡ -23H...-01H ➡ 00H

Language setting	 EN ➞FR ➞DE ➞ES ➞IT ➞NL➞RU
RCC setting	 
DST (day light saving) setting	 

ALARM TIME SETTING AND DISPLAY

1. In normal time mode, press and hold **[ALARM]** key for 2 seconds until the alarm hour digit flashes to enter alarm time setting mode.
2. Press **[CH / +]** or **[MEM / -]** key to change the value. Press and hold the key for quick-adjust.
3. Repeat the above operations to set the alarm time in this order: Hour → Minute.
4. When you complete the setting of Minute, Press **[ALARM]** key or leave the unit for 60 seconds to return to normal mode.

USING ALARM AND SNOOZE FUNCTION

1. Set the desired alarm time as described in the above section.
2. Or press “ALARM” key to display the alarm time, press it again to turn on alarm function with the alarm icon “ ” displayed on the LCD.
3. When clock reach the alarm time, alarm sound will start.

Where it can be stopped by following operation:

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

EMPERATURE AND HUMIDITY FUNCTIONS

1. Press **[°C / °F]** key to switch between °C /°F temperature unit.
2. When the temperature is below -50°C or above 70°C, "**Lo**" or "**Hi**" will be displayed respectively.

Above 70°C

Below -50°C

3. Relative Humidity range is 1~99%, if out of range the reading will show " - - ".

NOTE:
If temperature is displaying "Lo" or "Hi" the humidity reading will be " - - "

TEMPERATURE AND HUMIDITY TREND

The temperature and humidity trend indicator shows the trends of changes in the forthcoming few minutes. Arrows indicate a rising, steady or falling trend.

Arrow indicator	↗	→	↘
Trend	Rising	Steady	Falling

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

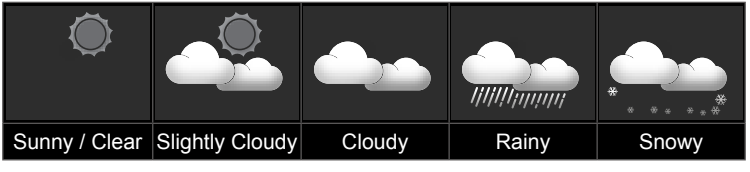
NOTE:
- Comfort indication can vary under the same temperature, depending on the humidity.
- There is no comfort Indication when temperature is below 0°C(32°F) or over 60°C (140°F).

THE SNOW ICON

When the outdoor temperature is 3°C or below, the flashing snow icon " ❄ " will appear in outdoor section.

WEATHER FORECAST

The device contains sensitive pressure sensor built-in with sophisticated and proven software that predicts weather for the next 12 ~ 24 hours within a 30 to 50 km (19-31 miles) radius.



NOTE:

1. The weather forecast is meant for the next 12 - 24 hours, it may not necessarily reflect the current situation.
2. The weather icon will flash on display when the rainstorm comes.
3. The **SNOWY** weather forecast is not based on the atmospheric pressure, but based on the outdoor temperature. When the outdoor temperature is below -3°C (26°F), the **SNOWY** weather indicator will be displayed on the LCD.

BAROMETRIC/ATMOSPHERIC PRESSURE

TO SELECT THE PRESSURE DISPLAY MODE

1. Press and hold the **[BARO]** key for 2 seconds to enter select model:
2. Press **[CH / +]** key or **[MEM / -]** key to select between:
   - **abs** --- the absolute atmospheric pressure of your location.
   - **rel** --- the relative atmospheric pressure based on the sea.
3. In "abs" mode, press **[BARO]** key to exit, In "rel" mode, press **[BARO]** key to set relative atmospheric pressure value in next section.

TO SET RELATIVE ATMOSPHERIC PRESSURE VALUE

1. Get the atmosphere pressure data of the sea level (it is also the relative atmosphere pressure data of your home area) through the local weather service, internet and other weather channels.
2. Press and hold the **[BARO]** key for 2 seconds until **abs** or **rel** icon flashes.
3. Press **[CH / +]** key or **[MEM / -]** key to switch to **RELATIVE** mode.
4. Press the **[BARO]** key once again until the **RELATIVE** atmospheric pressure digit flashes.

5. Press **[CH / +]** key or **[MEM / -]** key to change the value.
6. Press the **[BARO]** key to save and exit the setting mode.

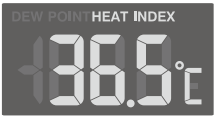
TO SELECT THE MEASUREMENT UNIT FOR THE BAROMETER
Use the **[BARO]** key to change the unit between **hPa / inHg / mmHg**

NOTE:

- When power up the main unit, it will display the relative pressure reading and default value is 1013 mb/hPa (29.91 inHg), which refers to the average atmosphere pressure.
- When you change the relative atmospheric pressure value, the weather indicators will change along with it.
- The relative atmosphere pressure is based on the sea level, but it will change with the absolute atmosphere pressure changes after operating the clock for 1 hour.

HEAT INDEX / DEW POINT

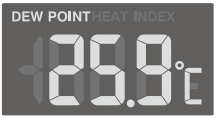
TO VIEW HEAT INDEX
Press the [INDEX] key repeatedly to show HEAT INDEX value.



NOTE:

Heat index is only calculated when temperature is 27° C (80° F) or above, and based solely from the temperature and humidity measured from the outdoor wireless sensors.

TO VIEW DEW POINT
Press the [INDEX] key repeatedly to show DEW POINT value.



NOTE:

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 calculated from the outdoor temperature and humidity measured at the outdoor wireless sensors.

HISTORY DATA (WEATHER RECORDS IN THE PAST 24 HOURS)

The main unit will record past 24 hours weather data automatically that included past indoor and outdoor temperature & humidity, Baro, and Dew point / heat index records.

1. Press the **[HISTORY]** key to check past 1 hour history records.
2. Press **[HISTORY]** key repeatedly to show past 2, 3, 4 , 5.....24 history weather records.

MAX/MIN RECORD

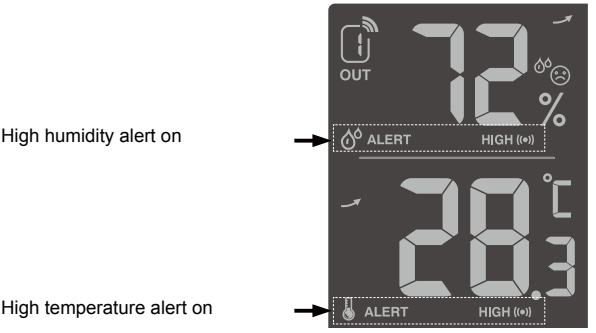
The main unit preserves the MAX / MIN weather data records since the last manual reset.

1. In normal mode, press **[MEM / -]** key once to show the current channel's maximum temperature.
2. Press **[MEM / -]** key repeatedly to show the MAX / MIN reading in this order: current channel's maximum temperature → current channel's minimum temperature → current channel's maximum humidity → current channel's minimum humidity → indoor maximum temperature → indoor minimum temperature → indoor maximum humidity → indoor minimum humidity → maximum baro reading → minimum baro reading.
3. When the MAX / MIN records are shown, the display will return to normal mode after leaving the unit for 6 seconds.
4. To erase the MAX / MIN records of indoor or current channel, press and hold **[MEM / -]** key for 2 seconds when the unit is displaying MAX / MIN records.

ALERT SETTING AND DISPLAY

The unit can setup temperature HI/LO alert for indoor and up to 8 outdoor channels.

1. In normal mode, press and hold **[ALERT]** key for 2 seconds to enter alert setting mode and the "IN" icon will flash. Press **[CHANNEL / +]** or **[MEM / -]** key again to choose outdoor channel.
2. Press **[ALERT]** key to switch between channel, temperature HI, temperature LO, humidity HI and humidity LO alert setting.
3. Press **[CH / +]** or **[MEM / -]** key to modify the value by 0.1 °C/°F for temperature or 1% for humidity, you can also press and hold to quick adjust the value.
4. When setting temperature Hi or Lo value, press **[ALARM]** key to toggle the alarm on/off of the regarding HI / LO alert.
5. When finished, press and hold **[ALERT]** key for 2 seconds or without pressing keys for 60 seconds to return normal mode.



NOTE:

- You cannot enter conflicting HI / LO values in the setting. For example, if the HI temperature alert value is 40°C, you cannot enter more than 39.9°C for the LO alert, and so forth.
- When the alert is triggered, the alarm will sound and the alarm icon on the display will flash. Press **[ALARM / SNOOZE]**, **[ALARM]** or **[ALERT]** key to stop the alarm sound. If you ignore the alarm, it will stop after 2 minutes.
- When auto-cycle mode, if any alarm is triggered the display will switch to the regarding channel. You can press **[ALARM / SNOOZE]**, **[ALARM]** or **[ALERT]** key or leave the unit for 2 minutes to stop the alarm. The display will return to auto-cycle mode afterwards.

MOON PHASE

The main unit can show the northern hemisphere moon phase status, below is the table which illustrate how the moon will appear on the main unit

Northern hemisphere	Moon Phase
	New Moon
	Waxing Crescent
	First quarter

	Waxing Gibbous
	Full Moon
	Waning Gibbous
	Third quarter
	Waning Crescent

LOW BATTERY ICON

If the main unit or sensor is low in battery, the low battery icon " " will display. The icon will only appear when the corresponding channel is displayed.
For example, the sensor of CH 1 is low in battery. When CH 1 is displayed, the icon " " will show.

Note:
The batteries in main unit are only for backup purpose, the battery life cannot maintain for long time usage.

BACKLIGHT

The main unit backlight can be adjust, using the [HI / LO / AUTO] sliding 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 backlight that according to environment light level.

SPECIFICATIONS

MAIN UNIT

Dimensions (W x H x D)	118 x 192.5 x 21mm (without attach table stand)
Main power	DC 5V, 1 A adaptor
Backup battery	CR2032 button cell
Barometer range	540 to 1100hPa, 405 to 825mmHg, 15.95 to 32.49inHg
Operating temperature range	-5°C to 50°C (23°F to 122°F)
Humidity range	RH 1% to 99 %
Resolution of temperature	0.1°C / °F
Resolution of humidity	1%
Radio controlled signal	Received from wireless sensor
Number of sensors support	Up to 8 units

WIRELESS SENSOR

Dimensions (W x H x D)	61 x 113.6 x 39.5mm
Main power	2 x AA size 1.5V batteries (Lithium battery recommended for low temperature environment)
Operating temperature range	-40°C to 60°C (-40°F to 140°F)
Operating humidity range	RH 1% to 99 %
RF frequency	433MHz
RF transmission range	30 meters
Radio controlled signal	MSF

UKCA Declaration of Conformity

UK CA Youshiko Ltd hereby declares that the product fully complied to applicable guidelines and corresponding standards for sales in the UK. For full details, please contact customer services of Youshiko Ltd (email address : cs@youshiko.co.uk).

All enquiries: service@youshiko.co.uk
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