digitech

Wireless
Weather Station
with Colour LCD
XC0434
User Manual

CONTENTS

INTRODUCTION

Thank you for your purchase of this delicate 5-in-1 professional outdoor sensor with colour display.

The wireless 5-IN-1 sensor contains a self-emptying rain collector for measuring rainfall, anemometer, and wind vane, temperature and humidity sensors. It is fully assembled and calibrated for your easy installation. It sends data by a low power radio frequency to the display main unit up to 150m away (line of sight).

The colourful display main unit displays all the weather data received from the 5-IN-1 sensor outside. It remembers the data for a time range for you to monitor and analyze the weather status for past 24 hours. It has advance features such as the HI / LO Alert alarm which will alert the user when the set high or low weather criteria are met. The barometric pressure records are computed to give users forthcoming weather forecast and stormy warning. Day and date stamps are also provided to the corresponding maximum and minimum records for each weather details.

The system also analyzes the records for your convenient viewing, such as the display of rainfall in terms of rain rate, daily, weekly and monthly records, whereas wind-speed in different levels. Different useful readings such as Wind-chill, Heat Index, Dew-point, Comfort level are also provided.
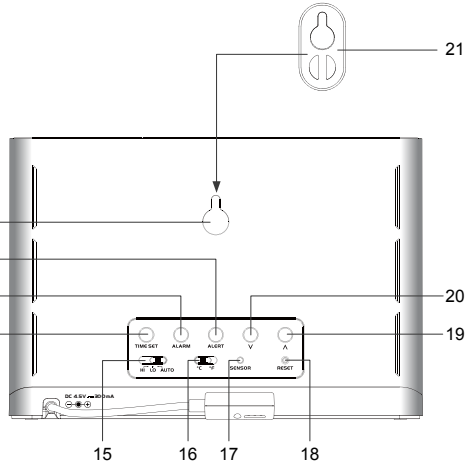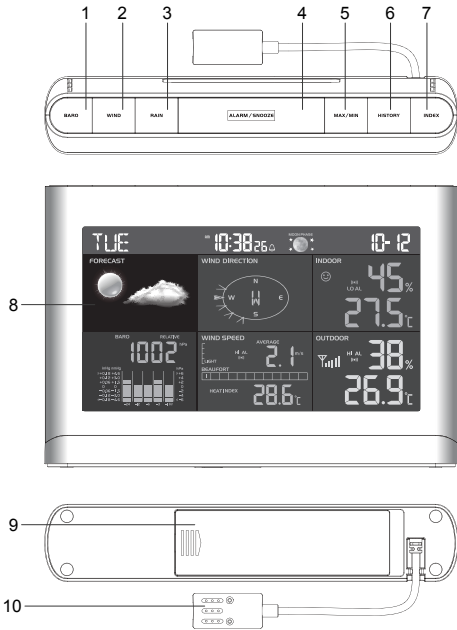
The system is truly a remarkable personal Professional Weather Station for your own backyard.

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. **[BARO]** key
2. **[WIND]** key
3. **[RAIN]** key
4. **[ALARM / SNOOZE]** key
5. **[MAX / MIN]** key
6. **[HISTORY]** key
7. **[INDEX]** key
8. LCD display
9. AAA battery compartment
10. Power jack / Temperature sensor
11. Wall-mounting hole

12. **[ALERT]** key
13. **[ALARM]** key
14. **[TIME SET]** key
15. **[HI / LO / AUTO]** dimmer slide switch
16. **[°C/°F]** slide switch
17. **[SENSOR]** key
18. **[RESET]** key
19. **[∧]** key
20. **[∨]** key
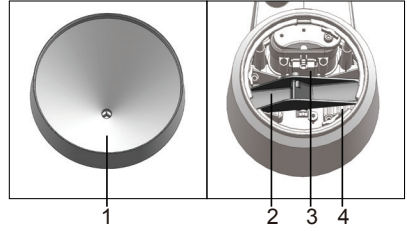21. Extend wall mount holder

WIRELESS 5-IN-1 SENSOR

1. Rain collector
2. Balance indicator
3. Antenna
4. Wind cups
5. Mounting pole
6. Radiation shield
7. Wind vane
8. Mounting base
9. Mounting claim
10. Red LED indicator
11. **[RESET]** key
12. Battery door
13. Screws
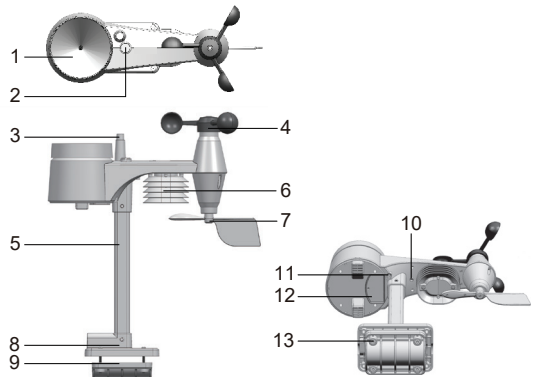
RAIN GAUGE

1. Rain collector
2. Tipping bucket
3. Rain sensor
4. Drain holes

TEMPERATURE AND HUMIDITY SENSOR

1. Radiation shield Sensor casing
2. Temperature and humidity sensor
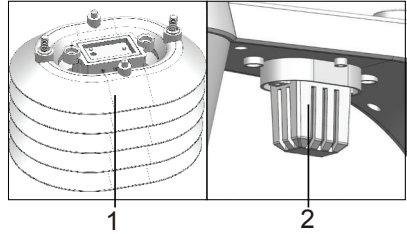
WIND SENSOR

1. Wind cups (anemometer)
2. Wind vane
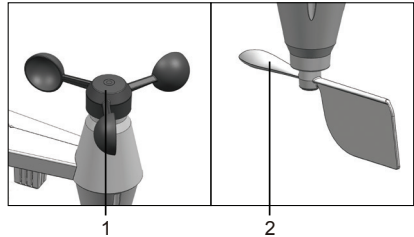
LCD DISPLAY

NORMAL TIME AND CALENDAR SECTION

1. Day of the week
2. Low battery indicator for main unit
3. Time
4. Alarm
5. Ice pre-alert "on"
6. Moon phase
7. Date

INDOOR TEMPERATURE AND HUMIDITY

1. Indoor indicator
2. Comfort Zone
3. HI/LO Alert and Alarm
4. Indoor humidity
5. Indoor temperature

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OUTDOOR TEMPERATURE AND HUMIDITY

1. Outdoor indicator
2. Outdoor sensor low battery indicator
3. Outdoor signal strength indicator
4. Hi/LO Alert and Alarm
5. Outdoor humidity
6. Outdoor temperature

WEATHER FORECAST

Weather forecast icon

BAROMETER

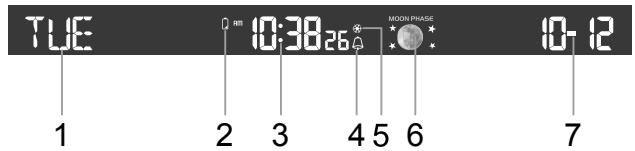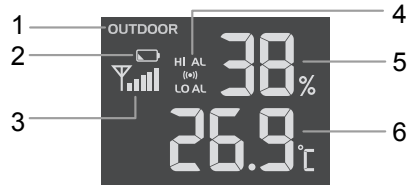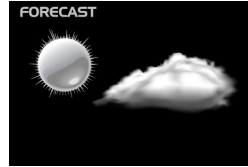1. BARO indicator
2. HISTORY
3. Barometer reading
4. ABSOLUTE/RELATIVE indicator
5. Barometer measurement unit(hPa/inHg/mmHg)
6. Hourly records indicator

RAINFALL

1. RAINFALL indicator
2. Time range record indicator
3. Day records indicator
4. HISTORY
5. Hi Alert and Alarm
6. Current rainfall rate
7. Rainfall unit (inch/mm)
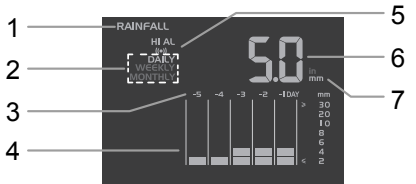
WIND DIRECTION

1. WIND DIRECTION indicator
2. Current wind direction indicator
3. Wind direction indicator during the last hour
4. Current wind direction reading
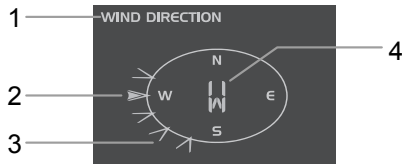
WIND SPEED / WIND CHILL / HEAT INDEX / DEW POINT

1. WIND SPEED indicator
2. Wind speed levels
3. Beaufort levels
4. WIND CHILL / HEAT INDEX / DEW POINT indicator
5. Hi Alert and Alarm
6. AVERAGE / GUST wind indicator
7. Wind speed unit (mph / m/s / km/h / knot)
8. Wind speed reading
9. WIND CHILL / HEAT INDEX / DEW POINT reading

6
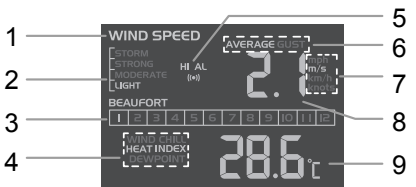
INSTALLATION
WIRELESS 5-IN-1 SENSOR
Your wireless 5-IN-1 sensor measures wind speed, wind direction, rainfall, temperature and humidity for you.
It's fully assembled and calibrated for your easy installation.

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.

Note:
1. Ensure the water tight O-ring is properly aligned in place to
   ensure water resistant.
2. The red LED will begin flashing every 12 seconds.
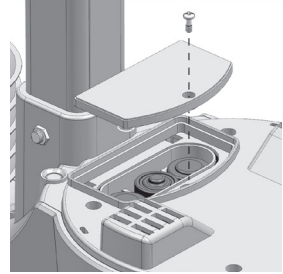
ASSEMBLY THE STAND AND POLE

Step 1 Insert the top side of the pole to the square hole of the weather sensor. 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.	
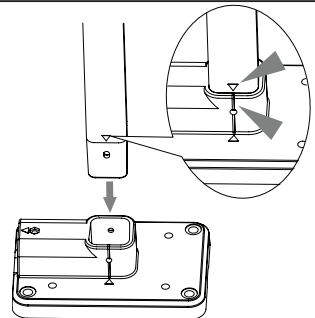
| Step 4
Place the nut in the hexagon hole of the stand, then insert the screw in other side and then tighten it by the screw driver. | |
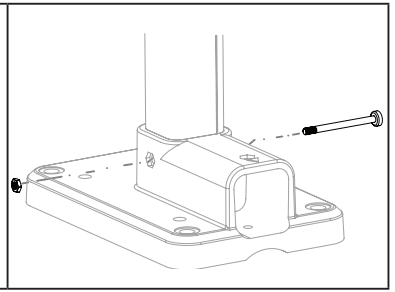
MOUNTING GUIDELINES

1. Install the wireless 5-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 display Main Unit.
3. Install the wireless 5-IN-1 sensor as level as possible to achieve accurate rain and wind measurements.
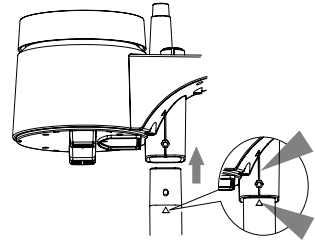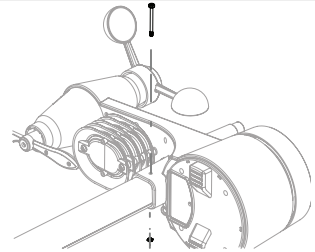4. Install the wireless 5-IN-1 sensor in an open location with no obstructions above and around the sensor for accurate rain and wind measurement. Install the sensor with the smaller end facing the South to properly orient the wind direction vane.Secure the mounting stand and bracket (included) to a post or pole, and allow minimum 1.5m off the ground.

This installation setup is for Southern hemisphere, if the sensor install in Northern hemisphere the smaller end should point to North.

Add rubber pads before mount on the pole

Point to SOUTH

1.5 meter off the ground
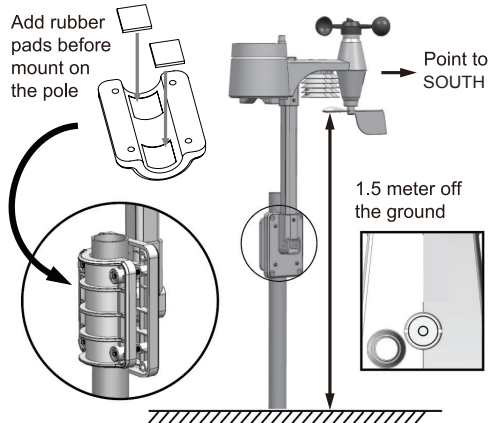
A. Mounting on pole (Pole Diameter 1"~1.3" (25~33mm)
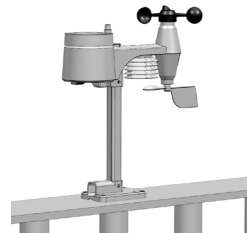
B. Mounting on the railing

CONSOLE
BACKUP BATTERIES INSTALLATION

1. Remove the battery door on the bottom of the main unit.
2. Insert a 3 new AAA batteries.
3. Replace the battery door.
4. Once the batteries are inserted, all the segments of the LCD will be shown.

Note:

- If no display appears on the LCD after inserting the batteries, press **[RESET]** key by using a pointed object.
- In some cases, you may not receive the signal immediately due to the atmospheric disturbance.

PAIRING OF WIRELESS 5-IN-1 SENSOR WITH DISPLAY MAIN UNIT

After insertion of batteries, the Display Main Unit will automatically search and connect the wireless 5-IN-1 sensor (antenna blinking).
Once the connection is successful, antenna mark and readings for outdoor temperature, humidity, wind speed, wind direction, and rainfall will appear on the display.

CHANGING BATTERIES AND MANUAL PAIRING OF SENSOR

Whenever you changed the batteries of the wireless 5-IN-1 sensor, pairing must be done manually.

1. Change the batteries to new ones.
2. Press **[SENSOR]** key.
3. Press **[RESET]** key on the sensor.

Note:

- Pressing **[RESET]** key at bottom of wireless 5-IN-1 sensor will generate a new code for pairing purpose.
- Always dispose old batteries in an environmentally safe manner.

SET THE CLOCK

1. Press and hold **[CLOCK]** key for 2 seconds until **12 or 24 Hr** flashes.
2. Use **[∨]** key / **[∧]** key to adjust, and press **[CLOCK]** key to proceed to the next setting.
3. Press **[CLOCK]** key again to step the setting items in this sequence: Hour format ➡ Hour ➡Minute ➡ Second ➡ Year ➡ Month ➡ Date ➡ Hour offset ➡ Language.

Note:

- The unit will automatically exit setting mode if no key was pressed in 60 seconds.

TO TURN ON / OFF ALARM CLOCK (WITH ICE-ALERT FUNCTION)

1. Press the **[ALARM]** key anytime to show the alarm time.
2. Press the **[ALARM]** key to activate the alarm.
3. Press again to activate alarm with ice-alert function.
4. To disable the alarm, press until the alarm icon disappears.

Alarm off	Alarm on	Alarm with ice-alert
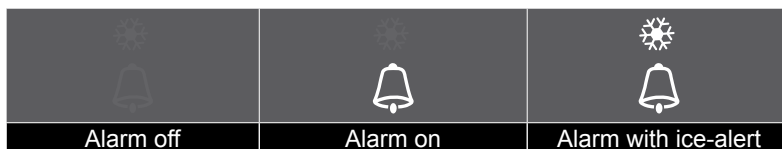
TO SET THE ALARM TIME

1. Press and hold the **[ALARM]** key for 2 seconds to enter alarm setting mode **HOUR** will begin to flash.
2. Use **[∨]** key / **[∧]** key to adjust **HOUR**, and press the **[ALARM]** key to proceed to set **MINUTE**.
3. Repeat 2 above to set **MINUTE**, and then press the **[ALARM]** key to exit.

Note:

- Pressing the **[ALARM]** key twice when alarm time is being displayed will activate the temperature-adjusted pre-alarm.
- The alarm will sound 30 minutes earlier if it detects outside temperature is below -3°C.

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.

Sunny/Clear	Slightly Cloudy	Cloudy	Rainy	Rainy/Stormy	Snowy
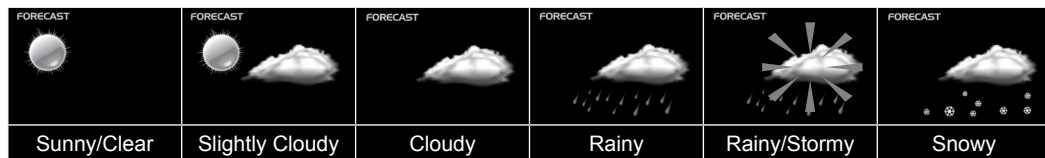
Note:

- The accuracy of a general pressure-based weather forecast is about 70% to 75%.
- The weather forecast is meant for the next 12 hours, it may not necessarily reflect the current situation.
- The weather icon will flash on display when the rainstorm comes.
- 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 DISPLAY MODE

Press and hold the **[BARO]** key for 2 seconds to toggle between:

- **ABSOLUTE**   the absolute atmospheric pressure of your location
- **RELATIVE**   the relative atmospheric pressure based on the sea

TO SET RELATIVE ATMOSPHERIC PRESSURE VALUE

1. Press and hold the **[BARO]** key for 2 seconds until **ABSOLUTE** or **RELATIVE** icon flashes.
2. Press **[V]** key / **[Λ]** key to switch to **RELATIVE** mode.
3. Press the **[BARO]** key once again until the **RELATIVE** atmospheric pressure digit flashes.
4. Press **[V]** key / **[Λ]** key to change the value.
5. Press the **[BARO]** key to save and exit the setting mode.

Note:

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

TO SELECT THE MEASUREMENT UNIT FOR THE BAROMETER

1. Press the **[BARO]** key to enter unit setting mode.
2. Use the **[BARO]** key to change the unit between **inHg / mmHg / hPa**.
3. Press the **[BARO]** key to confirm.

RAINFALL

TO SELECT THE RAINFALL DISPLAY MODE

The device displays how many mm/inches of rain are accumulated in an hour time period, based on current rainfall rate. Press the **[RAINFALL]** key to toggle between:

- **RATE**   Current rainfall rate in past an hour
- **DAILY**   The DAILY display indicate the total rainfall from midnight
- **WEEKLY**   The WEEKLY display indicate the total rainfall from the current week
- **MONTHLY**   The MONTHLY display indicate the total rainfall from the current calendar month

Rainfall rate	Daily rainfall	Weekly rainfall	Monthly rainfall
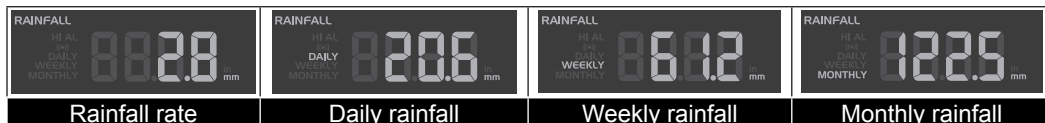
Note:
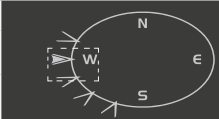Rain rate is updated every 6 minutes, at every hour on the hour, and at 6, 12, 18, 24, 30, 36, 42, 48, 54 minute past the hour.

TO SELECT THE MEASUREMENT UNIT FOR THE RAINFALL
1. Press and hold the **[RAINFALL]** key 2 seconds to enter unit setting mode.
2. Use **[∨]** key / **[∧]** key to toggle between **mm** (millimeter) and **in** (inch).
3. Press the **[RAINFALL]** key to confirm and exit.

WIND SPEED/WIND DIRECTION
TO READ THE WIND DIRECTION

Wind Direction Indicator	Meaning		
➤	Real-time wind direction		
>	Wind directions appeared in last 5 minutes (max 6 indicator mark)		

TO SELECT THE WIND DISPLAY MODE
Press the **[WIND]** key to toggle between:

- **AVERAGE**   The AVERAGE wind speed will display the average of all wind speed numbers recorded in the previous 30 seconds
- **GUST**   The GUST wind speed will display the highest wind speed recorded from last reading

The wind level provides a quick reference on the wind condition and is indicated by a series of text icons

Level	LIGHT	MODERATE	STRONG	STORM
Speed	1 ~ 19 km/h	20 ~ 49 km/h	50 ~ 88 km/h	> 88 km/h

TO SELECT WIND SPEED UNIT
1. Press and hold the key for 2 seconds to enter unit setting mode.
2. Use **[∨]** key / **[∧]** key to change the unit between **mph** (miles per hour) / m/s (meter per second) / **km/h** (kilometer per hour) / **knots**.
3. Press the key to confirm and exit.

BEAUFORT SCALE
Beaufort scale is an international scale of wind velocities 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 knot	
		< 0.3 m/s	
1	Light air	1.1 ~ 5.5 km/h	Smoke drift indicates wind direction. Leaves and wind vanes are stationary.
		1 ~ 3 mph	
		1 ~ 3 knot	
		0.3 ~ 1.5 m/s	

2	Light breeze	5.6 ~ 11 km/h	Wind felt on exposed skin. Leaves rustle. Wind vanes begin to move.
		4 ~ 7 mph	
		4 ~ 6 knot	
		1.6 ~ 3.3 m/s	
3	Gentle breeze	12 ~ 19 km/h	Leaves and small twigs constantly moving, light flags extended.
		8 ~ 12 mph	
		7 ~ 10 knot	
		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 knot	
		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 knot	
		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 knot	
		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 knot	
		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 knot	
		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 knot	
		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 knot	
		24.5 ~ 28.4 m/s	
11	Violent storm	103 ~ 117 km/h	Widespread vegetation and structural damage likely.
		64 ~ 73 mph	
		56 ~ 63 knot	
		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 knot	
		≥ 32.7m/s	

WIND CHILL / HEAT INDEX / DEW POINT

TO VIEW WIND CHILL

Press the **[INDEX]** key repeatedly until **WIND CHILL** displays.

Note:

The wind chill factor is based on the combined effects of temperature and wind speed. The wind chill displayed is calculated solely from temperature and humidity measured from the 5-IN-1 sensor.

TO VIEW HEAT INDEX

Press the **[INDEX]** key repeatedly until **HEAT INDEX** displays.

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

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 5-IN-1 sensor.

TO VIEW DEW POINT

Press the **[INDEX]** key repeatedly until **DEW POINT** displays.

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 5-in-1 sensor.

HISTORY DATA (ALL 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, wind chill, wind speed and rainfall 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 MEMORY FUNCTION

1. Press the **MAX/MIN** key to check the maximum/minimum records. The checking orders will be: Outdoor max temperature ➡ Outdoor min temperature ➡ Outdoor max humidity ➡ Outdoor min humidity ➡ Indoor max temperature ➡ Indoor min temperature ➡ Indoor Max humidity ➡ Indoor min humidity ➡ Outdoor max wind chill ➡ Outdoor min wind chill Outdoor max heat index ➡ Outdoor min heat index ➡ max dew point ➡ min dew point ➡ Max pressure ➡ Min pressure ➡ Max average ➡ Max gust ➡ Max rainfall.
2. Press and hold the **[MAX/MIN]** key for 2 seconds to reset the maximum and minimum records.

Note:

When maximum or minimum reading is displayed, the corresponding timestamp will be shown.
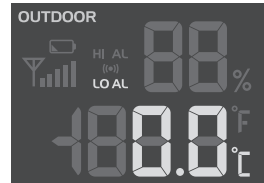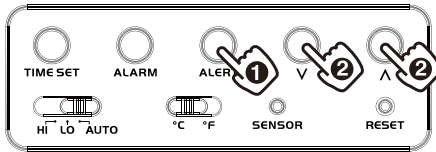
HI/LO ALERT

HI/LO alert are used to alert you of certain weather conditions. Once activated, the alarm will turn on and amber LED starts flashing when a certain criterion is met. The following are areas and type of alert provided:

| Area	Type of Alert available
Indoor temperature	HI and LO alert
Indoor humidity	HI and LO alert
Outdoor temperature	HI and LO alert
Outdoor humidity	HI and LO alert
Rainfall	HI alert (Daily rainfall since midnight)
Wind speed	HI alert

TO SET THE HI/LO ALERT

1. Press the **[ALERT]** key until the desired area is selected.
2. Use **[∨]** key / **[∧]** key to adjust the setting.
3. Press the **[ALERT]** key to confirm and continue to next setting.

TO ENABLE / DISABLE THE HI / LO ALERT

1. Press the **[ALERT]** key until the desired area is selected.
2. Press the **[ALARM]** key to turn the alert on or off.
3. Press the **[ALERT]** key to continue to next setting.
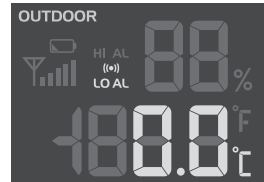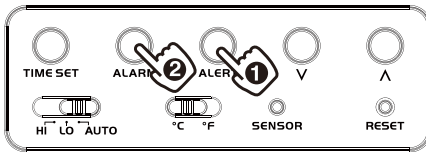
Note:

- The unit will automatically exit setting mode in 5 seconds if no key is pressed.
- When ALERT alarm is on, the area and type of alarm that triggered the alarm will be flashing and the alarm will sound for 2 minutes.
- To silence the Alert alarm beeping, press the **[ALARM / SNOOZE] / [ALARM]** key, or let the beeping alarm automatically turn off after 2 minutes.

WIRELESS SIGNAL RECEPTION

| No sensor	Signal searching	Strong signal	Weak signal	Signal lost
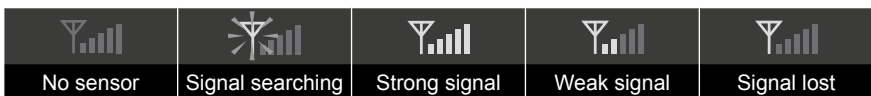
The 5-IN-1 sensor is capable of transmitting data wirelessly over an approximate operating of 150m range (line of sight). Occasionally, due to intermittent physical obstructions or other environmental interference, the signal may be weaken or lost. In case that the sensor signal is lost completely, you will need to relocate the Display main unit or the wireless 5-IN-1 sensor.

TEMPERATURE & HUMIDITY
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
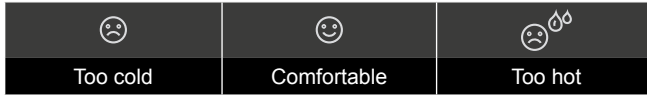
Note:

- 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).

DATA CLEARING
During installation of the wireless 5-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 Main Unit, without needing to reset the clock and re-establish pairing. Simply press and hold the **[HISTORY]** key for 10 seconds. This will clear out any data recorded before.

POINTING 5-IN-1 SENSOR TO THE SOUTH
The outdoor 5-IN-1 sensor is calibrated to be pointing to North by default. However, in some cases, users may wish to install the product with the arrow pointing towards the South:

1. First install the outdoor 5-IN-1 sensor with its arrow pointing to the South.
2. On the Display main unit, press and hold the **[WIND]** key for 8 seconds until the upper part (Northern Hemisphere) of the compass lights up and blinking.
3. Use **[∨]** key / **[∧]** key to change to lower part (Southern Hemisphere).
4. Press the **[WIND]** key to confirm and exit.

WIND DIRECTION	WIND DIRECTION
Northern hemisphere	Southern hemisphere
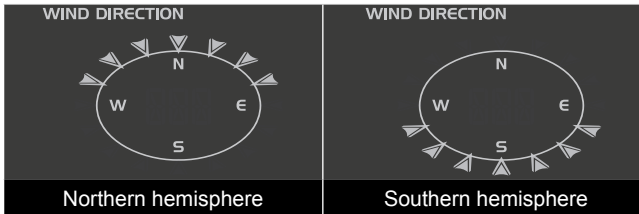
Note:
Changing from hemisphere setting will automatically switch the direction of the moon phase on the display.

MOON PHASE
In the Southern hemisphere, the moon waxes (the part of the moon we see that glows after the New Moon) from the Left. Hence the sun-lit area of the moon moves from left to right in the Southern Hemisphere, while in the Northern Hemisphere, it moves from right to left.
Below are the tables which illustrate how the moon will appear on the main unit.

Northern hemisphere	Moon Phase	Southern hemisphere
MOON PHASE	New Moon	MOON PHASE
MOON PHASE	Waxing Crescent	MOON PHASE
MOON PHASE	First quarter	MOON PHASE

	Waxing Gibbous	
	Full Moon	
	Waning Gibbous	
	Third quarter	
	Waning Crescent	

AUTO DIMMER

- Slide to the **[AUTO]** position, and the brightness of backlight will automatically adjust based on the ambient room lighting (dims in low light).
- Slide to the **[LO]** position for the dimmer backlight.
- Slide to the **[HI]** position for the brighter backlight.

MAINTENANCE
TO CLEAN THE RAIN COLLECTOR

1. Rotate the rain collector by 30° anticlockwise.
2. Gently remove the rain collector.
3. Clean and remove any debris or insects.
4. Install all the parts when they are fully clean and dried.

TO CLEAN THE THERMO/HYGRO SENSOR

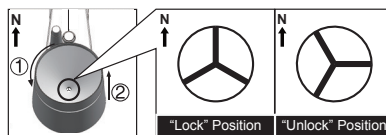1. Unscrew the 2 screws at the bottom of the radiation shield.
2. Gently pull out the shield.
3. Remove carefully any dirt or insects inside the sensor casing (Do not let the sensors inside get wet).
4. Clean the shield with water and remove any dirt or insects.
5. Install all the parts back when they are fully clean and dried.

TROUBLESHOOTING

Problem / Symptom	Solution
Strange or no measurement of Rain Sensor	1. Check the drain hole in the rain collector. 2. Check the balance indicator.
Strange or no measurement of Thermo / Hygro Sensor	1. Check the radiation shield. 2. Check the sensor casing.
Strange or no measurement of Wind Speed and Direction	1. Check wind cups (Anemometer). 2. Check the wind vane.
and `---` (Signal lost for 15 minutes) and `Er` (Signal lost for 1 hour)	1. Relocate the main unit and 5-in-1 sensor closer to each other. 2. Make sure the main unit is placed away from other electronic appliances that may interfere with the wireless communication (TVs, computers, microwaves). 3. If problem continues, reset both main unit and 5-in-1 sensor.

PRECAUTIONS

- Read and keep these instructions.
- Heed all warnings and follow all 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.
- Only use attachments/accessories specified by the manufacturer.
- Images shown in this manual may differ from the actual display.
- Placement of this product on certain types of wood may result in damage to its finishing for which manufacture will not be responsible. Consult the furniture manufacturer's care instructions for information.
- 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.
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Do not dispose old batteries as unsorted municipal waste. Collection of such waste separately for special treatment is necessary.
- The technical specifications for this product and the contents of the user manual are subject to change without notice.
- When disposing of this product, ensure it is collected separately for special treatment.

SPECIFICATIONS

CONSOLE	
Dimensions (W x H xD)	202 x 138 x 38mm
Weight	530g with backup batteries
Main power	DC 4.5V, 300mA adaptor
Backup battery	3 x AAA size 1.5V batteries (Alkaline recommended)
Support sensor	Wireless 5-in-1 sensor (Wind speed, Wind direction, Rain gauge, thermo-hygro)
RF frequency	917Mhz
CLOCK	
Clock display	HH:MM:SS / Weekday
Hour format	12hr AM / PM or 24hr
Calendar	DD/MM
Weekday in 5 languages	EN, FR, DE, ES, IT
INDOOR BAROMETER	
Barometer unit	hPa, inHg and mmHg
Measuring range	540 ~ 1100hPa
Accuracy	(700 ~ 1100hPa ± 5hPa) / (540 ~ 696hPa ± 8hPa) (20.67 ~ 32.48inHg ± 0.15inHg) / (15.95 ~ 20.55inHg ± 0.24inHg) (525 ~ 825mmHg ± 3.8mmHg) / (405 ~ 522mmHg ± 6mmHg) Typical at 25°C (77°F)
Resolution	1hPa / 0.01inHg / 0.1mmHg
Weather forecast	Sunny/Clear, Slightly Cloudy, Cloudy, Rainy, Rainy/Stormy and Snowy
Memory modes	Max & Min from last memory reset (with time stamp), Historical data of past 24 hours
Alarm	Pressure change alarm
INDOOR TEMPERATURE	
Temperature unit	°C or °F
Displayed range	-40°C to 70°C (-40°F to 158°F)
Operating range	-5°C to 50°C (14°F to 122°F)
Resolution	0.1°C or 0.1°F
Accuracy	+/- 1°C or 2°F typical @ 25°C (77°F)
Memory modes	Max & Min from last memory reset (with time stamp), Historical data for last 24hrs
Alarm	Hi / Lo Temperature Alert

INDOOR HUMIDITY	
Displayed range	20% to 90% RH (<20%: LO; > 90%: HI) (Temperature between 0°C to 60°C)
Operating range	20% to 90%RH
Resolution	1%
Accuracy	20 ~ 40% RH, ± 8% RH, at 25°C (77°F) 41% ~ 70% RH, ± 5% RH, at 25°C (77°F) 71% ~ 90% RH, ± 8% RH, at 25°C (77°F)
Memory modes	Max & Min from last memory reset (with time stamp), Historical data for last 24hrs
Alarm	Hi / Lo Humidity Alert
OUTDOOR TEMPERATURE (**Note:** Data detect from wireless 5-in-1 sensor)	
Temperature unit	°C or °F
Displayed range	-40°C to 80°C (-40°F to 176°F)
Resolution	0.1°C or 0.1°F
Accuracy	55 ~ 60°C ± 0.5°C (131 ~ 140°F ± 0.9°F) 10 ~ 55°C ± 0.4°C (50 ~ 131°F ± 0.7°F) -20 ~ 10°C ± 1.3°C (-4 ~ 50°F ± 2.3°F) -40 ~ -20°C ± 1.9°C (-40 ~ -4°F ± 3.4°F)
Memory modes	Max & Min from last memory reset (with time stamp), Historical data for last 24hrs
Alarm	Hi / Lo Humidity Alert
OUTDOOR HUMIDITY (**Note:** Data detect from wireless 5-in-1 sensor)	
Displayed range	0% to 100% RH
Resolution	1%
Accuracy	0 ~ 90% RH, ± 2.5% RH, at 25°C (77°F) 90 ~ 100% RH, ± 3.5% RH, at 25°C (77°F)
Memory modes	Max & Min from last memory reset (with time stamp), Historical data for last 24hrs
Alarm	Hi / Lo Humidity Alert
RAIN (**Note:** Data detect from wireless 5-in-1 sensor)	
Unit for rainfall	mm and in
Range for rainfall	0~9999mm (0~393.7inches)
Resolution	0.4 mm (0.0157 in)
Accuracy for rainfall	Greater of +/- 7% or 1 tip
Memory modes	Max rainfall from last memory reset, Historical data for last 24hrs
Alarm	Hi Rainfall Alert
WIND (**Note:** Data detect from wireless 5-in-1 sensor)	
Wind speed unit	mph, m/s, km/h, knots
Wind speed range	0~112mph, 50m/s, 180km/h, 97knots
Wind speed resolution	0.1mph or 0.1knot or 0.1m/s
Speed accuracy	< 5m/s: +/- 0.5m/s; > 5m/s: +/- 6%
Direction resolutions	16
Memory modes	Max gust speed with direction (with time stamp), Historical data for last 24hrs
Alarm	Hi Wind speed Alert (Average / Gust)
WIRELESS 5-IN-1 SENSOR	
Dimensions (W x H x D)	343.5 x 393.5 x 136 mm
Weight	673g with batteries
Operating temperature range	-40°C to 70°C (-40°F to 158°F)
Operating humidity range	1% to 99% RH
Battery	3 x AA size 1.5V battery (Lithium battery recommended)
RF Frequency	917 MHz
RF transmission range	Up to 150 meters
Transmission	Every 12 seconds

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