UZOLI

EM3405 Weather Station
User manual

DE

EN

ES

FR

IT

Contents

I. Introduction

▶ Thank you for choosing the Uzoli EM3405 weather station. The EM3405 weather station consists of a base station (receiver), a remote sensor and a power adapter with USB type C connector. The following manual contains step-by-step instructions for installation, operation and setting, please read it carefully and keep it.

▶ Please leave the base station and the sensor in the same place for 48 hours after switching it on for the first time so that the temperature/ humidity sensor can calibrate itself and adapt to the local weather.

▶ If you encounter difficulties when using the weather station or find that the product has quality problems, please take photos and contact us first, we will analyse the possible causes of the problems and provide solutions for you.

▶ If the product does not meet your expectations and you wants to return it, please repackage the product and contact Amazon Customer Service to request a return. If you are unsure whether the product has a hardware fault, please do not mark it as "damaged" as Amazon will simply dispose of it, which results in a huge waste of resources.

II. Technical data and functions

▶ Perpetual calendar until 2099

▶ Time display in 12/ 24 hour format

▶ Weekday display available in 15 languages: English, German, French, Spanish, Italian, Dutch, Danish, Portuguese, Norwegian, Swedish, Polish, Finnish, Czech, Hungarian and Russian

▶ 2 alarm clocks with snooze function

▶ Display of indoor/ outdoor temperature, indoor/ outdoor humidity and air pressure with trends

▶ Temperature display selectable in °C or °F

▶ Pressure display selectable in hPa/mb or inHg

▶ Max/ Min display for temperature and humidity

▶ 5 levels of comfort for indoor/ outdoor

▶ 4 levels of mould risk for indoor/ outdoor

▶ Temperature/ humidity alarm (upper/ lower limit adjustable)

▶ Frost point alarm for outdoor

▶ 6 weather forecast symbols: sunny, partly cloudy, cloudy, rainy, stormy, snowy

▶ 5 levels of brightness for backlight (LV4 to LV1 and then off)

▶ Measuring range:

  - Indoor temperature: -9.9°C to 50°C, accuracy ±1°C (=2°C)

  - Outdoor temperature: -40°C to 70°C, accuracy ±1°C (=2°C)

  - Humidity: 20% to 95%RH, accuracy ±5% (=10%)

  - Air pressure: 600 to 1100 hPa/mb or 17.72 to 32.48 inHg

▶ 1 wireless outdoor sensor:

  - Install using hanging holes or table stand

  - RF transmission frequency is 433.92MHz

  - 60m transmission range when without obstructions

  - 1 base station is compatible with a maximum of 3 sensors, but only one is included in the order

▶ Power supply:

  ① Base station: DC 5V power adapter with USB type C plug (included in the scope of delivery) or 2 x LR03/ AAA battery (NOT included in the scope of delivery)

  ② Outdoor sensor: 2 x LR6/ AA battery (NOT included in the scope of delivery)

Note:

The wireless outdoor sensor can operate at -40°C to +70°C. In winter, please select the cold-resistant battery according to the limit temperature of the wireless sensor:

① Alkaline zinc manganese dioxide battery can normally work at -20°C to +60°C.

② Polymer lithium-ion battery can normally work at -40°C to +70°C

III. Appearance of the weather station

B7
B6
B5
B4
B3
B2
B1

B9
B10
B11

DC 5V
B8

C7

AA(UM-3)1.5V

AA(UM-3)1.5V

C4   C5   C6

C2

WIRELESS SENSOR

23.4℃
56%

C1   C3
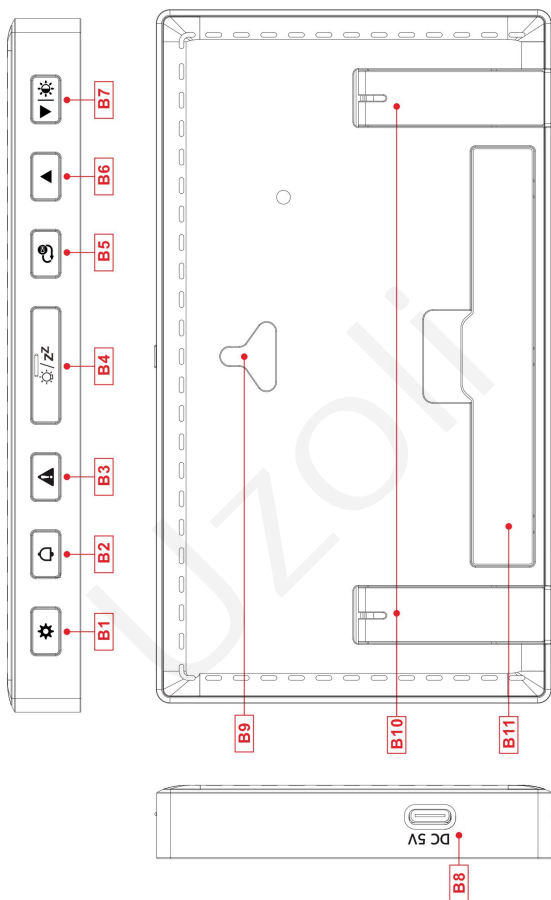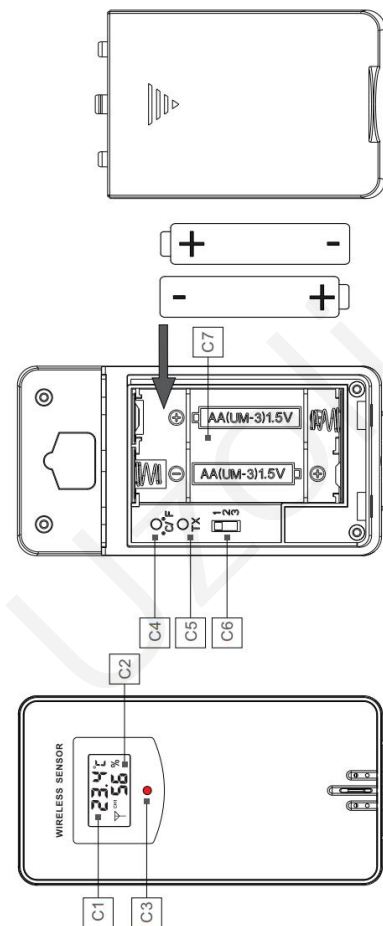
Part A - Positive LCD

A1: Channel number and reception icon	A8: Indoor mould risk
A2: Outdoor temperature	A9: Indoor humidity
A3: Time	A10: Air pressure
A4: Outdoor humidity	A11: Indoor temperature
A5: Outdoor mould risk	A12: Weather forecast
A6: Outdoor comfort level	A13: Month and date
A7: Indoor comfort level	A14: Weekday

Part B - Function keys and connections

B1: [✿] key	B7: [▼|☼] key
B2: [◯] key	B8: Power supply socket - type C
B3: [⚠] key	B9: Hanging holes
B4: [☼/ zᶻ] key	B10: Table stand
B5: [◉] key	B11: Battery compartment
B6: [▲] key	

Part C - Wireless remote sensor

C1: LCD display of outdoor temperature
C2: LCD display of outdoor humidity
C3: LED signal light
C4: [°C/°F]-selection boutton
C5: [TX]-button for immediate signal transmission
C6: Switch of channel 1/2/3 (CH1/2/3)
C7: Battery compartment

IV. Installation instructions

1. **Install the base station**

▸ Firstly, connect the base station to the power supply using the power adapter supplied.

▸ It is recommended to equip the base station with 2 AAA batteries together with the power adapter to ensure that the base station can save its settings and function properly even in the event of a power failure.

2. **Install outdoor sensor**

▸ Secondly, please open the battery compartment of the outdoor sensor and set it as channel 1. Then place 2 AA batteries in the battery compartment. Make sure that all batteries are inserted according to the polarity indications on the back of the outdoor sensor. Close the battery compartment.

▸ After inserting the batteries into the outdoor sensor, all icons on the LCD display of the sensor light up briefly for 3 seconds and the sensor measures outdoor temperature and humidity. At the same time the LED signal light flickers once, the wireless sensor automatically transmits wireless signals.

▸ If the signal transmission is interrupted (the signal light of the sensor always does not flash red), you can press the **[TX]**-button (for immediate signal transmission) in the battery compartment of the outdoor sensor to send the RF signal to the base station manually. The signal transmission takes about 3 minutes and after completion the icon "ꞏꞏ)))" is displayed over the channel data in the area of "**OUTDOOR**".

Note:

▸ The base station can connect up to 3 sensors (But the order contains only ONE).

▸ The wireless sensor normally displayed by the base station is set to channel 1. If the wireless sensor is set to channel 2 or 3, you need to press the [⟳] key to switch to channel 2 or 3, and then please observe whether the temperature and humidity are displayed in the data area of "OUTDOOR" on the base station. If so, the outdoor signal has been successfully received.

V. **Default setting**

1. The base station switches on all segments of the LCD for 3 seconds after switching on the power supply. After the beep "BI", the unit switches to standard mode and starts measuring the indoor temperature and humidity and air pressure.

2. At the same time, the weather station starts receiving the RF signal from the outdoor sensor. If the signal transmission is interrupted (the signal light of the sensor always does not flash red), you can press the **[TX]**-button (for immediate signal transmission) in the battery compartment of the outdoor sensor to send the RF signal to the base station manually. The signal transmission takes about 3 minutes and after completion the icon "ıı))ı" is displayed above the channel data on the base station.

3. After receiving the signal from the outdoor sensor, the base station displays the outdoor temperature and humidity.

4. **Standard display when switching on**:

① Time and date: 00:00, 24-hour format, 1 January 2023

② Standard unit for temperature: °C

③ Weather forecast: partly cloudy

④ Language: ENG (English)

⑤ Standard unit for air pressure: hPa/mb

⑥ Alarm 1: 6:00 for M-F; Alarm 2: 8:00 for S-S; Default setting is OFF.

VI. **Operating instructions**

1. **Manual time setting ==== the corresponding setting content flashes when you make the setting, other irrelevant display contents are hidden.**

▶ In normal display mode, press and hold the **[☼]** key for 3 seconds to access the manual time setting.

▶ The setting item flashes at 1Hz, while pressing the **[☼]** key briefly to select the setting content, the order is as follows:

Temperature unit (℃/ ℉) → Air pressure unit (hpa/ inHg) → (12/ 24)-hour format → Hours → Minutes → Year → Month → Day → Language→ Air pressure (reference value) → Weather forecast (reference value) → Exit

▸ When the setting value flashes at 1 Hz, press the **[▲]** key briefly to add the value by 1, press and hold the **[▲]** key to add the value rapidly.

▸ When the setting value flashes at 1 Hz, press the **[▼]** key briefly to decrease the value by 1, press and hold the **[▼]** key to decrease the value rapidly.

▸ The year is set in the range 2000 to 2099 (default: 1 January 2023).

▸ Display language of the day of the week:

ENG → English	NOR → Norwegian
GER → German	SWE → Swedish
FRE → French	POL → Polish
SPA → Spanish	FIN → Finnish
ITA → Italian	CZE → Czech
DUT → Dutch	HUN → Hungarian
DAN → Danish	RUS → Russian
POR → Portuguese	

▸ About setting reference value of air pressure and weather forecast:

After switching on for the first time, you need to enter a reference value for the weather forecast based on the local weather and the weather station will calibrate itself to this reference value. Weather forecasts are calculated based on changes in air pressure and can be up to 75% accurate one week after switching on the weather station.

The initial air pressure value is supplied from the factory and is set to absolute pressure. The weather station displays the absolute pressure by default when it is first switched on (that`s the pressure value measured by the weather station's built-in air pressure sensor). **If you live in an area with relatively low altitude, you can rely on the absolute air pressure values and do not set the air pressure value manually (you do not need to enter a barometric reference value).**

But if you live in an area with relatively high altitude, you can use relative air pressure by entering barometric reference values. As the air pressure usually

decreases with increasing altitude, the public weather services always publish the so-called relative air pressure. If you want to match the air pressure to your location, you can ask your local weather service for the air pressure at sea level or get the current value from the Internet.

Please note, if you have accidentally set the relative air pressure and wish to reset the absolute air pressure, you must switch the station completely off and on again to restore the default settings.

▶ Press the **[☼ / zᶻ]** key for 3 seconds during or after setting to exit manual setting mode at any time.

▶ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the setting mode.

2. Alarm clock settings

▶ In normal display mode, press and hold the **[⏰]** key for 3 seconds to enter the alarm time setting mode.

▶ The setting items flash at 1Hz, while briefly pressing the **[⏰]** key to select the setting content, the order is as follows (first alarm 1, then alarm 2):

Hours → Minutes → Alarm repeatition (M-F/ M-S/ S-S) → Snooze time (05-60 adjustable/ OFF) → Exit

▶ Snooze time is 5 to 60 minutes. Or you can also switch off the snooze mode permanently by setting the snooze time to OFF.

▶ There are 3 alarm repetitions to choose from:

　M-F: *from Monday to Friday*

　S-S: *from Saturday to Sunday*

　M-S: *from Monday to Sunday*

If the alarm repeat is set to M-F, the alarm function is activated from Monday to Friday and a "**M-F**" appears under the alarm clock icon.

If the alarm repeat is set to S-S, the alarm function is activated on Saturday and Sunday and a "**S-S**" appears under the alarm clock icon.

If the alarm repeat is set to M-S, the alarm function is activated for a whole week, a "**M-F**" and a "**S-S**" appear simultaneously under the alarm clock icon.

▶ When the setting value flashes at 1 Hz, press the **[▲]** key briefly to add the value by 1, press and hold the **[▲]** key to add the value rapidly.

▶ When the setting value flashes at 1 Hz, press the **[▼]** key briefly to decrease the value by 1, press and hold the **[▼]** key to decrease the value rapidly.

▶ Press the **[☼/z^Z]** key for 3 seconds during or after setting to exit manual setting mode at any time.

▶ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the setting mode.

3. Switching the alarm clock on/ off

▶ In normal display mode, briefly press the **[🔔]** key to switch the alarm time display from Alarm 1 and Alarm 2. In the display mode of Alarm Clock 1/2, the alarm can be switched on or off by pressing the **[▲]** key.

▶ When the alarm 1 or 2 is switched on, the icon "🔔" or "②" appears accordingly and the alarm 1 or 2 is activated. In addition, the icon of alarm repetition is also displayed.

▶ When the alarm 1 or 2 is switched off, the icon "🔔" or "②" disappears and the alarm 1 or 2 is deactivated.

4. Deactivate the wake-up call

▶ When the alarm sounds, press any key except the **[☼/z^Z]** key or press and hold the **[☼/z^Z]** key for more than 2 seconds or do nothing within 2 minutes toturn off the alarm.

▶ When the alarm sounds, the volume of the gradually increasing alarm tone (crescendo, duration: 2 minutes) changes four times.

▶ If the alarm is deactivated, the alarm is repeated automatically after 24 hours, depending on the setting.

5. Snooze function

▶ When the alarm sounds, briefly press the **[☼/z^Z]** key to interrupt the alarm signal and activate the snooze mode, the snooze icon "z^Z" flashes. After the set snooze time has elapsed, the alarm sounds again.

▸ In snooze mode, press any key except the **[☼/z^z]** key or press and hold the **[☼/z^z]** key for more than 2 seconds or do nothing within 1 minute to exit snooze mode.

▸ If the snooze function is deactivated, pressing the **[☼/z^z]** key will not switch to snooze mode.

6. Wireless sensor transmission

▸ If the base station successfully receives the signal from the outdoor sensor, the outdoor temperature and humidity are displayed in the data area of "**OUTDOOR**" on the base station.

▸ The base station can be connected with up to 3 wireless sensors. If you use multiple wireless sensors, different sensors cannot be registered on the same channel at the same time.

▸ Pressing the **[↺]** key switches the display of the outdoor temperature and humidity for the different channels. When the icon "↺" is displayed, each channel is displayed in turn for 5 seconds.

▸ If the base station does not receive the transmission signal from a channel, ("-- --") is displayed on the area of corresponding channel data, briefly press the **[↺]** key to select the corresponding channel number. After selection, the corresponding channel number is displayed. At this time, press and hold the **[↺]** key for 3 seconds to receive the transmission signal again. If the signal transmission is interrupted, you can also press the **[TX]**-button (for immediate signal transmission) in the battery compartment of the corresponding outdoor sensor to send the RF signal to the base station manually.

▸ In normal mode, if you want to delete the current data and receive the outdoor signal again, you can also select the corresponding channel and press the **[↺]** key for 3 seconds to update the outdoor data.

▸ When deleting the outdoor data, the original minimum and maximum of the outdoor temperature and humidity are also deleted together.

▸ After completion, the base station receives the radio signal from the outdoor sensor again and displays the icon "⬆))".

7. Temperature and humidity measurement

▶ Indoor temperature measuring range: -9.9°C (+14°F) to +50°C (+122°F), division value 0.1°C/ °F;

LL.L °C/ °F is displayed when the value is below -9.9 °C (+14°F);

HH.H °C/ °F is displayed when the value is above +50°C (+122°F).

▶ Outdoor temperature measuring range: -40°C (-40°F) to +70°C (+158°F), division value 0.1°C/ °F;

LL.L °C/ °F is displayed when the value is below -40°C (-40°F);

HH.H °C/ °F is displayed when the value is above +70°C (+158°F).

▶ Humidity measuring range: 20% to 95% RH, division value 1%RH;

19%RH is displayed when the value is below 20% RH;

96%RH is displayed when the value is above 95% RH.

Note:

The indoor temperature and humidity are measured every 60 seconds. But during the 3-minute RF long reception and alarm, the measurement of the indoor temperature and humidity is not performed, which is why the measurement values are not updated.

8. Display of temperature/ humidity with trends

▶ Temperature trend:

🠕: If the temperature has increased by 1°C (1.8°F) in each measurement compared to the previous data or if the temperature has increased by 1°C (1.8°F) in total within 1 hour, the trend arrow points upwards;

🠗: If the temperature has decreased by 1°C (1.8°F) in each measurement compared to the previous data or if the temperature has decreased by 1°C (1.8°F) in total within 1 hour, the trend arrow points downwards.

No trend: when switching on or when the temperature remains constant.

▶ Humidity trend:

🠕: If the humidity has increased by 5%RH in each measurement compared to the previous data, or if the total humidity has increased by 5%RH within 1 hour, the trend arrow points upwards;

�’: If the humidity has decreased by 5%RH in each measurement compared to the previous data or if the total humidity has decreased by 5%RH within 1 hour, the trend arrow points downwards.

No trend: when switching on or when the humidity remains constant.

9. Max/ Min display for temperature and humidity

▶ In normal display mode, press the [▲] key briefly to switch between the maximum and minimum indoor/ outdoor temperature/ humidity data, the **"MAX"** and **"MIN"** icon will be displayed on the LCD, the order is as follows:

Max display → Min display → Exit

▶ To reset the maximum and minimum temperature and humidity values, press and hold the [▲] key for 3 seconds in Max/ Min display mode. This will reset all recorded minimum and maximum data to the currently displayed values.

Note:

LL.L is displayed, if the temperature is below the measuring range;
HH.H is displayed, if the temperature is above the measuring range;
19%RH is displayed, if the humidity is below the measuring range;
96%RH is displayed, if the humidity is above the measuring range.

10. Display/ activation/ deactivation for temperature/ humidity alarm

▶ In normal display mode, briefly press the [🔺] key to enter the display mode for temperature and humidity alarms.

▶ In alarm display mode, press the [🔺] key to switch to the next display value:

Indoor temperature upper and lower limit alarm (INDOOR) →
Indoor humidity upper and lower limit alarm (INDOOR) →
Outdoor temperature upper and lower limit alarm (OUTDOOR) →
Outdoor humidity upper and lower limit alarm (OUTDOOR)

▶ While displaying the alarms of upper and lower temperature/ humidity limit for **OUTDOOR**, press the [🔄] key to switch the alarm setting between 3 channels (*CH1→CH2→CH3*).

▶ In alarm display mode, press the [▲] key to turn the corresponding alarm on/off (the default is OFF). When switched on, the corresponding icon "HI🔺" and "LO🔺" is displayed.

11. Setting for temperature and humidity limit

▶ In normal display mode, press and hold the [🔺] key for 3 seconds to enter the temperature and humidity limit setting mode.

▶ In alarm setting mode, the setting value flashes at 1Hz, then press the [🔺] key to move to the next setting value:

Upper alarm limit for the indoor temperature (INDOOR) →
Lower alarm limit for the indoor temperature (INDOOR) →
Upper alarm limit for indoor humidity (INDOOR) →
Low alarm limit for indoor humidity (INDOOR) →
Upper alarm limit for outdoor temperature (OUTDOOR) →
Lower alarm limit for outdoor temperature (OUTDOOR) →
Upper alarm limit for outdoor humidity (OUTDOOR) →
Lower alarm limit for outdoor humidity (OUTDOOR)

▶ While setting the upper and lower temperature limit or humidity limit for **OUTDOOR**, press the [🔄] key to switch the limit settings between 3 channels (*CH1→CH2→CH3*).

▶ In the setting mode, press the [▲] or [▼] key to change the limit value.

▶ Press the [🔆/ z^z] key for 3 seconds during or after setting to exit manual setting mode at any time.

▶ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the setting mode.
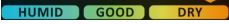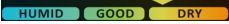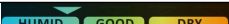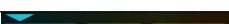
12. Alarm activation status of temperature/ humidity/ frost point

▶ If the temperature/ humidity exceeds the set threshold when the temperature/ humidity alarm is aktivated, the alarm sounds and the corresponding icon "HI🔺" or "LO🔺" flashes on the display.

▶ In this alarm mode, press any key to stop the alarm sound, but the alarm icon will continue to flash.

▶ When the outdoor temperature is within the range of -1°C (+30°F) to +3°C (+37°F), the "❄" icon flashes in the channel data area (but the alarm does not sound).

13. Comfort level and mold risk

▶ There are 5 display modes for the comfort level, as follows:

Comfort levels			Humidity range
HUMID GOOD DRY	TOO DRY		<35%
HUMID GOOD DRY	DRY		35%~44%
HUMID GOOD DRY	COMFORT		45%~65%
HUMID GOOD DRY	WET		66%~80%
HUMID GOOD DRY	TOO WET		>80%

▶ The weather station determines the mould risk level by intelligently evaluating the indoor temperature and humidity and there are 4 levels:

High risk: with the icon "*HI*"
Medium risk: with the icon "*ME*"
Low risk: with the icon "*LO*"
No risk: without icon

14. Weather forecast

▶ The weather station calculates a weather forecast for the next 12 hours based on the change in air pressure. Of course, this forecast cannot be compared with that of professional weather services supported by satellites and high-performance computers. This forecast only provides an approximate indication of the current weather development in a small local area. Please consider the weather forecast of your local weather service as well as the forecast of your weather station at the same time. In case of discrepancies between the indications of your device and the local weather forecast service, please accept the indications of the latter as authoritative.

‣ The weather station displays the following 6 weather icon:

sunny	Partly cloudy	cloudy	rainy	stormy	snowy

Note:

‣ The "snowy" icon is only displayed if the outdoor temperature is below -4°C (+5°F) and the forecast would be rainy or stormy. The outdoor temperature mentioned here is set to the temperature of CH1 by default. (If there is no signal in CH1, the base station sets the temperature of CH2 to the outdoor temperature by default. If there is no signal in CH2, the base station sets the temperature of CH3 to the outdoor temperature by default).

‣ It takes 7 to 10 days for the weather station to complete the air pressure calibration. After the air pressure calibration, the weather forecast stabilises with an accuracy rate of 70 to 75%.

‣ The weather station can give weather forecast for a radius of 12-20 kilometres.

15. Display of air pressure with trends

‣ Air pressure measuring range: 600 hPa/mb (17.72 inHg) to 1100 hPa/mb (32.48 inHg), division value 1 hPa/mb or 0.01 inHg.

‣ Air pressure trend:

↗ *If the air pressure has increased by 1 hPa in each measurement compared to the previous data or if the air pressure has increased by 1 hPa in total within 1 hour, the trend arrow points upwards;*

→ *If in each measurement the air pressure shows no change in air pressure compared to the previous data or if there is no change in air pressure within 1 hour, the trend arrow points to the right.*

↘ *If the air pressure has decreased by 1 hPa in each measurement compared to the previous data or if the air pressure has decreased by 1 hPa in total within 1 hour, the trend arrow points downwards.*

16. Low battery status

▶ If the icon "▭" appears on the display in the indoor area (**INDOOR**), you need to replace the base station battery as soon as possible.

▶ If the icon "▭" appears on the display in the area of channels (**OUTDOOR**), you need to replace the battery of the corresponding outdoor sensor as soon as possible.

17. Backlight with adjustable night mode

1) Adjustable brightness of the backlight

▶ If the base station is powered by batteries only, touch the **[☼ / Z^Z]** key to light the display for 30 seconds.

▶ When the base station is operated with the mains adapter, the backlight can always remain bright. When doing so, you can press the **[✿]** key to change the brightness levels of the backlight:

LV4 → LV3 → LV2 → LV1 → OFF

▶ If the backlight brightness is not set to the highest level, press the **[☼ / Z^Z]** key, the backlight will switch to the highest brightness level for 15 seconds.

▶ It is more recommended to operate the weather station with both the adapter and the batteries to ensure that the settings of the station are saved even in case of a power failure.

2) Settings for night mode

▶ The backlight can also be set to dim automatically at night. Press the **[☼ / Z^Z]** key for 3 seconds to enter the night mode setting. Then press the **[▲]** or **[▼]** key, you can switch the night mode on or off (the display shows the icon "ON/ OFF".).

▶ If the night mode is set to OFF, pressing the **[✿]** key exits the setting mode and does not change to the next setting value.

▸ When the night mode is set to ON, in the setting mode, press the **[✿]** key to set the night mode. While pressing the **[▲]** or **[▼]** key, you can add or decrease the setting value. The order of setting is as follows:

the brightness at night (LV1 to LV3) → start hour of night mode → start minute of night mode → end hour of night mode → end minute of night mode → exit

▸ Press the **[☼/zᶻ]** key for 3 seconds during or after setting to exit manual setting mode at any time.

▸ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the setting mode.

▸ When the night mode is activated, the icon "�" is shown on the display. When the time to enter night mode is reached, the backlight automatically switches to the set night mode brightness and when the time to exit night mode is reached, the backlight returns to the original brightness.

▸ In night mode, the backlight can be switched to the highest brightness level (level 4) by pressing the **[☼/zᶻ]** key for 15 seconds.

▸ Night mode is automatically terminated when the backlight is switched off.

VII. Additional information

MANUFACTURER:

Company Name: dongguanshiyouyidianzishangwuyouxiangongsi

Address: guangdongshengdongguanshihoujiezhenjiajudadao1108shi

IMPORTER:

Company Name: dongguanshiyouyidianzishangwuyouxiangongsi

Address: guangdongshengdongguanshihoujiezhenjiajudadao1108shi

Email: uzoliweather@outlook.com
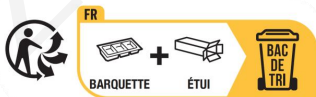
Contact Person: Viola

EC	REP

Name: Sea&Mew Consulting GmbH

Address: Mittenhuber Straße 4, 92318 Neumarkt

Email: Compliance.EU@outlook.com

Contact Person: Yuan Li

The symbol with the crossed-out wheeled bin means that the product must be disposed of separately from household waste. The product must be recycled according to local disposal regulations. By disposing of the product separately, you will contribute to the reduction of incineration or landfill waste and reduce any negative impact on human health and the environment.