

N80 Manual

Technical Data and Features

MAIN:

- ▶ Perpetual calendar up to year 2099
- ▶ Time in optional 12/24 hour format
- ▶ Automatic calibration of network time service
- ▶ Day of week in 15 languages user selectable: English, German, French, Spanish, Italian, Dutch, Danish, Portuguese, Norwegian, Swedish, Polish, Finnish, Czech, Hungarian, and Slovak
- ▶ Daily Alarm with snooze function (4 alarms)
- ▶ Local sunrise and sunset time and lunar phase
- ▶ Indoor & outdoor humidity measurable range: 1%RH to 99%RH
- ▶ temperature measurement ranges::
 - Indoor:-10°C to 50°C or (14°F to 122°F)
 - Outdoor:-40°C to 70°C or (-40°F to 158°F)
 - Temperature alternatively in °C or °F.
- ▶ Maximum / Minimum indoor temperature and humidity record and query
- ▶ Wireless Outdoor Sensor:
 - Wall mount or table stand
 - 433.92MHz RF transmitting frequency
 - 60 meters transmission range in an open area
 - Up to 3 wireless outdoor sensors can be connected. (One wireless outdoor sensor included)
- ▶ Feels like temperature data source network
- ▶ Barometric pressure:
 - Air pressure data source network
 - Pressure alternatively in hPa/mb or inHg or mmHg
- ▶ Wind speed and direction:
 - Wind speed and direction data source network
 - Wind speed alternatively in km/h or Mph
- ▶ Air quality of PM2.5 and AQI
 - PM2.5 and AQI data source network
 - PM2.5 alternatively in $\mu\text{g}/\text{m}^3$
- ▶ UVI data source network
- ▶ Future weather forecast and temperature report function, with weather forecast information provided by the network for a total of 5 days (including the same day)
- ▶ Connects directly to wifi network, connect to Tuya smart system
- ▶ Power Supply:
Battery: 2 x LR03, 1.5 V (size AAA)
Equipment power input: DC 5V, minimum 1A (Power cord or power adapter)

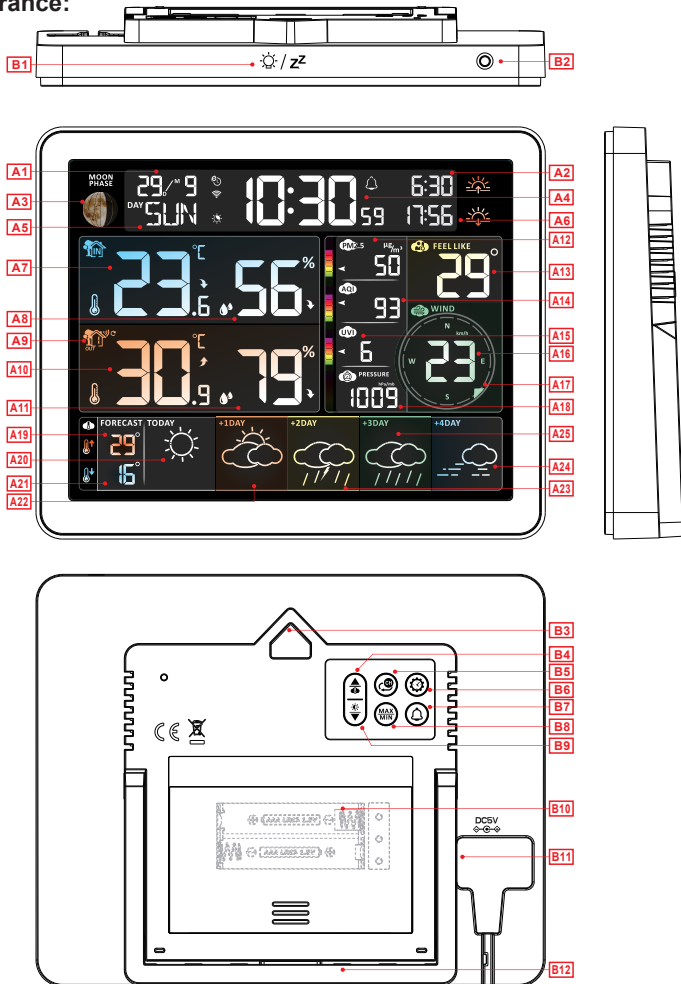
Wireless Outdoor Sensor:

- 3 Channels selectable
- Data transmission frequency: 433 MHz

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- Wireless range: max. 60 m (open area)
- Batteries: 2 x LR6, 1.5 V (size AA)

MAIN Appearance:



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Part A- Positive LCD

A1: Calendar

A2: Sunrise time

A3: Moon phase

A4: Time

A5: Week for today

A6: Sunset time

A7: Indoor temperature

A8: Indoor humidity

A9: Remote wireless channel

A10: Outdoor temperature

A11: Outdoor humidity

A12: PM2.5

A13 : Feel like temperature

A14 : AQI

A15:UVI

A16: Wind Speed

A17: Wind Direction

A18: Barometric pressure

A19: Predicted maximum temperature today and in the next 1-4 days

A20: Weather forecast for the today

A21: Predicted minimum temperature today and in the next 1-4 days

A22: Weather forecast for the next +1 days

A23: Weather forecast for the next +2 days

A24: Weather forecast for the next +4 days

A25: Weather forecast for the next +3 days



: WIFI signal strength indicator



: Low battery warning icon for the main unit



: Network Time icon



: Icon for automatic backlight adjustment



: Alarm1 icon



: Alarm2 icon



: Alarm3 icon



: Alarm4 icon



: Repetition of alarm clock: icons from Monday to Friday



: Repetition of alarm clock: icons from Saturday to Sunday



: Alarm snooze icon



: INDOOR icon

MAX: Display the maximum temperature and humidity record icon

MIN: Display the minimum temperature and humidity record icon



: Temperature | humidity up trend arrow



: Temperature | humidity down trend arrow



: Wireless receiving icon

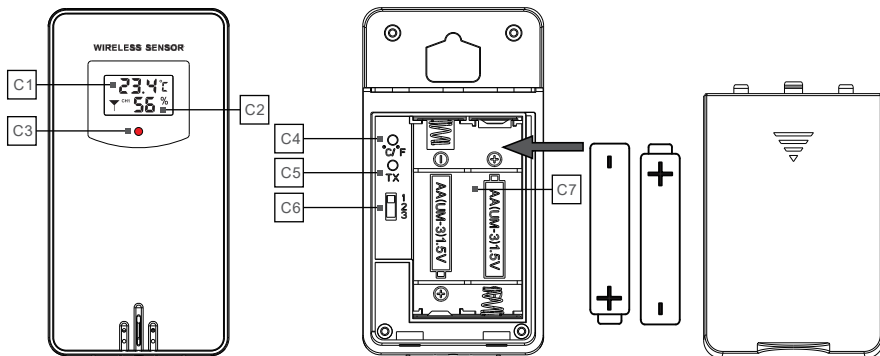


: Wireless channel loop icon

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Part B – Back button and power

- B1: "☀ / ZZ" touch key
- B2: Light sensor
- B3: Hanging hole
- B4: "☼" button
- B5: "CH" button
- B6: "⚙" button
- B7: "🔔" button
- B8: "MAX MIN" button
- B9: "☼" button
- B10: Battery compartment
- B11: DC-POWER input jack
- B12: Support frame



Part C –Wireless Outdoor Sensor:

- C1: LCD display – Temperature
- C2: LCD display – Humidity
- C3: Transmit signal LED
- C4: "°C/°F" button
- C5: "TX" button
- C6: Channel selector switch
- C7: Battery compartment

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Setup Preparation

Items you will need to setup your weather station (not included):

New Batteries:

2 AAA alkaline or lithium batteries (1.5V) for the weather station

2 AA alkaline or lithium batteries (1.5V) for the Wireless Outdoor Sensor

For Best Results:

- Remove weather station and sensors from the package and place together on a table or bench, within easy reach.
- Place batteries within reach of setup location.
- Keep sensors and weather station 0.15-0.3 meter or 5-10 feet for at least 15 minutes after installing batteries, to allow the sensors and station to connect repeatedly.

Download Tuya Smart App:



APP ICON



Based on your mobile phone brand, search for the Tuya app on the iOS App Store or Android Google Play. Locate the app with the icon shown above and download it. Register an account, open the app, and log in. Additionally, connect to the hotspot that the weather station will use to prepare for device pairing.

Quick Setup

1. Insert 2 AA batteries into the Wireless Outdoor Sensor, and set the channel to confirm the sensor, push the selection through the position of C6
2. Then plug the power cord into the weather station
3. Pair the weather station with WIFI and server information according to the APP prompts, Refer to the WIFI pairing instructions for details.
4. Configure the basic settings, such as time/date format and units
5. Insert 2 AAA batteries into the weather station (when the power adapter is unexpectedly powered off, the settings will not be lost)
6. After 5 minutes, move the remote sensor to the outdoor location or another desired location

WIFI Pairing

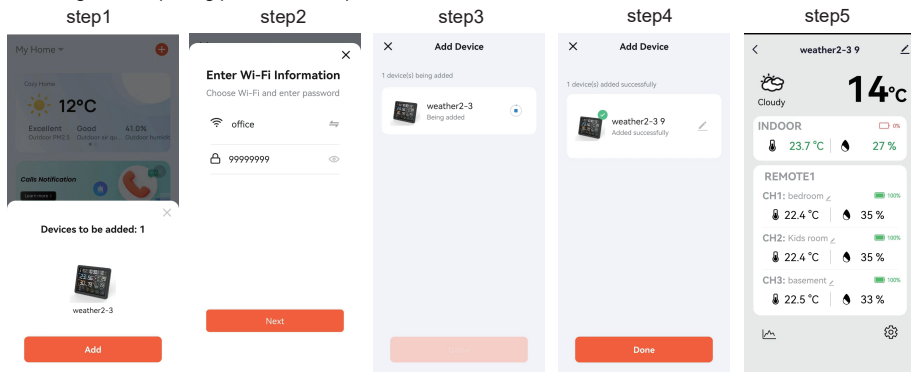
► According to the illustration, insert the power adapter into the power input interface of B11, the display screen of the main unit will show all the graphics, and a BEEP sound prompt will be issued. After 3 seconds, it will switch to the WIFI pairing mode and display "AP 01" .

► Open the Tuya APP, click the "+" icon in the upper right corner of the screen to select Add Device. The app interface will switch to the device discovery window automatically, click "Add" and follow the prompts.

► Then follow the APP instructions, step 2: enter the WIFI network name and password, step 3: Follow the pairing process and wait for the screen to advance to step 4, click "Done", step 5: switch to the main interface,

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indicating that the pairing process is complete.



Note: The paired WIFI hotspot must be 2.4GHz, this product only supports 2.4GHz wireless network

- ▶ If the main unit does not automatically enter the pairing mode when powered on for the first time, you can press and hold the “” button for more than 3 seconds to enter the pairing mode manually, the display prompt is the same as the automatic entry.
- ▶ After the pairing is completed, the weather station will automatically connect to the WLAN, automatically update the network time, and start searching for signals from remote wireless sensors. The “” icon blinks for about 3 minutes. At this time, if the outdoor wireless sensor is working normally, the main unit will start to search for the signal of the remote wireless sensor within 1-2 minutes. Once it detects the signal, the outdoor temperature and humidity will be displayed on the main unit's screen.







Outdoor Sensor Transmission:

- ▶ The main unit supports registration of up to 3 channels for wireless sensors. When using multiple wireless sensors, ensure each sensor is assigned a unique channel (Channels 1, 2, or 3). Avoid selecting the same channel for more than one sensor simultaneously.
- ▶ Press the “” button to switch outdoor temperature | humidity between different channels.
- ▶ If the main unit cannot receive the transmission signal from the outdoor sensor (“- -” is displayed on the LCD), press and hold the “” button for 3 seconds to receive the transmission signal manually. The outdoor temperature will show the RF antenna icon flashing, and the main unit will re-receive the wireless signal from the outdoor sensor.

Note: when the wireless sensor set up different channels, the base station also need to switch to the same channel. When there is no wireless sensor signal transmission on the channel, “- -” will be displayed in the channel of the base station. Please note that the channel of the sensor and the base station should be consistent.

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Time and Unit Settings

- ▶ Press and hold the  button for 3 seconds to enter the time setting mode.
 - ▶ Press the  or  button to adjust the value. Press and hold the  or  button to adjust quickly.
 - ▶ Press the  button to confirm and move to the next item.
- Note:** After 20 seconds without pressing any button to exit the settings.

Settings Order:

1. Temperature unit: °C | °F
2. Pressure unit: hPa | inHg | mmHg
3. Wind speed unit: km/h | mph | m/s | knots
4. Hour format: 24Hr | 12Hr
5. Hour
6. Minutes
7. Calendar display format: Month/Date | Date/Month
8. Year
9. Month
10. Date
11. Week display language: a total of 15 countries

Note: There are 15 languages of Weekday: English, German, French, Spanish, Italian, Dutch, Danish, Portuguese, Norwegian, Swedish, Polish, Finnish, Czech, Hungarian, and Slovakia

Note: Once the base station is connected to WiFi, there is no need to set the time and the time will be automatically synchronized by the network. You only need to set the display format as needed

Note: When setting the time, the minutes will automatically increment starting from zero seconds


Week language display

Language	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
ENGLISH	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
ENG	MON	TUE	WED	THU	FRI	SAT	SUN
GERMAN	MONTAG	DIENSTAG	MITTWOCH	DONNERSTAG	FREITAG	SAMSTAG	SONNTAG
GER	MON	DIE	MIT	DON	FRE	SAM	SON
FRENCH	LUNDI	MARDI	MERCREDI	JEUDI	VENDREDI	SAMEDI	DIMANCHE
FRE	LUN	MAR	MER	JEU	VEN	SAM	DIM
ITALIAN	LUNEDI	MARTEDI	MERCOLEDI	GIOVEDI	VENERDI	SABATO	DOMENICA
ITA	LUN	MAR	MER	GIO	VEN	SAB	DOM
SPANISH	LUNES	MARTES	MIERCOLES	JUEVES	VIERNES	SABADO	DOMINGO
SPA	LUN	MAR	MIE	JUE	VIE	SAB	DOM
PORTUGUESE	SEGUNDA-FEIRA	TERÇA	QUARTA-FEIRA	QUINTA-FEIRA	SEXTA-FEIRA	SABADO	DOMINGO
POR	SEG	TER	QUA	QUI	SEX	SAB	DOM
DUTCH	MAANDAG	DINSDAG	WOENSDAG	DONDERDAG	VRIJDAG	ZATERDAG	ZONDAG
DUT	MAA	DIN	WOE	DON	VRI	ZAT	ZON

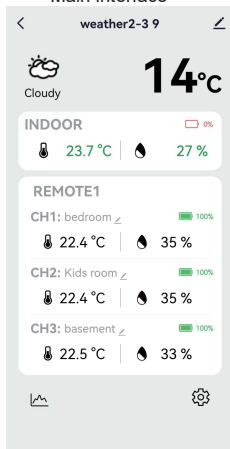
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DANISH	MANDAG	TIRSDAG	ONSDAG	TORSDAG	FREDAG	LØRDAG	SØNDAG
DAN	MAN	TIR	ONS	TOR	FRE	LOR	SON
NORWEGIAN	MANDAG	TIRSDAG	ONSDAG	TORSDAG	FREDAG	LØRDAG	SØNDAG
NOR	MAN	TIR	ONS	TOR	FRE	LOR	SON
SWEDISH	MÅNDAG	TISDAG	ONSDAG	TORSDAG	FREDAG	LÖRDAG	SÖNDAG
SWE	MAN	TIS	ONS	TOR	FRE	LOR	SON
POLISH	PONIEDZIAŁEK	WTOREK	ŚRODA	CZWARTEK	PIĄTEK	SOBOTA	NIEDZIELA
POL	PON	WTO	SRO	CZW	PIA	SOB	NIE
FINNISH	MAANANTAI	TIISTAI	KESKIVIIKKO	TORSTAI	PERJANTAI	LAUANTAI	SUNNUNTAI
FIN	MAN	TII	KIS	TOR	PER	LAU	SUN
CZECH	PONDĚLÍ	ÚTERÝ	STŘEDA	ČTVRTEK	PÁTEK	SOBOTA	NEDĚLE
CZE	PON	UTE	STR	CTV	PAT	SOB	NED
HUNGARIAN	HÉTFŐ	KEDD	SZERDA	CSÜTÖRTÖK	PÉNTEK	SZOMBAT	VASÁRNAP
HUN	HET	KED	SZE	CSU	PEN	SZO	VAS
Slovakia	Pondelok	utorok	Streda	Štvrtok	piatok	sobota	nedeľa
SVK	PON	UTO	STR	STV	PIA	SOB	NED

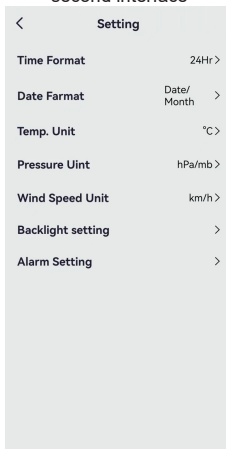
APP Setting Unit:

► When the weather station is paired and connected to WIFI, its time will be automatically synchronized to the local current time. At the same time, click the setting icon “” on the APP home screen to switch to the setting interface, and then click the appropriate menu bar to set the unit.

Main interface



second interface






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Setting the Daily Alarms:

► There are four sets of daily alarm clocks, and there are two setting methods. Use the button operation of the weather station to set or click the alarm clock setting item in the Tuya APP interface to set.

Button Operation of Weather Station

► Press the  button to switch the time interface displayed in AL1 | AL2 | AL3 | AL4. In each interfaces, press the  button to turn on or off the corresponding alarm function, When activated, the corresponding alarm icon will display.


► In these four ALARM interfaces, press and hold the  button for more than 3 seconds to enter the setting mode of the corresponding alarm time.

► Press the  "MEM" or  "MEM" button to adjust the value. Press and hold the  "MEM" or  "MEM" button to adjust quickly.

► Press the  button to confirm and move to the next item.

Note: When the function of AL1 | AL2 | AL3 | AL4 is turned on, the alarm icon is displayed. At the same time, the relevant alarm repeat icon "MO" | "TU" | "WE" | "TH" | "FR" | "SA" | "SU" is displayed

Note: "MO" | "TU" | "WE" | "TH" | "FR" | "SA" | "SU" display indicates that an alarm will be triggered on Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday

Note: Wait for 20 seconds without pressing any buttons, or press the  button to exit the viewing modes.


Settings Order:

1. Hours of alarm time
2. Minutes of the alarm time
3. Week repeat of the alarm
4. Snooze time: 5 to 60minutes | OFF

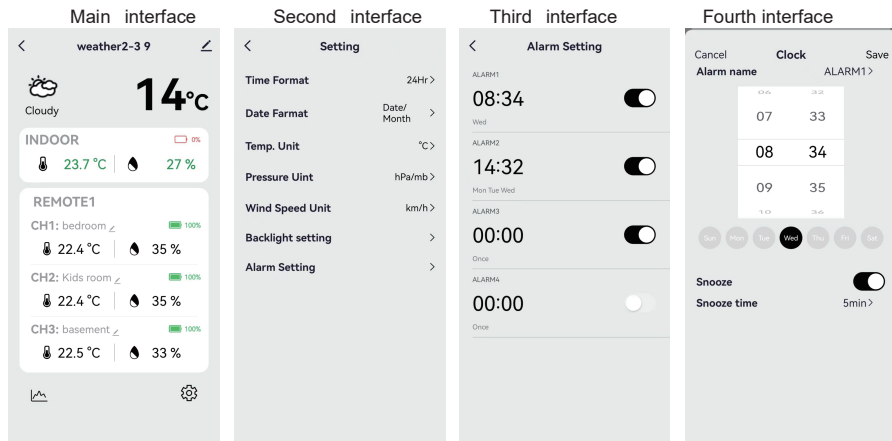
Note: You can manually set the alarm repetition to "MO, TU, WE, TH, FR" for weekdays, "SA, SU" for weekends, or choose "all" for all days.

Note: The snooze time setting ranges from 5 to 60 minutes. Selecting "OFF" disables the snooze function entirely. The snooze time unit is in minutes.

APP Setting Alarm

► When the weather station is paired and connected to WIFI, its time will be automatically synchronized to the local current time. At the same time, click the setting icon  on the main screen of the APP to switch to the setting interface, and then click on "Alarm Setting" in the menu bar to access the submenu for setting.

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Note: Weekly repetition in the APP can be set independently for each day

Note: The alarm will sound for 2 minutes if not deactivated by pressing any button. In this case the alarm will be repeated automatically after 24 hours.

Note: Rising alarm sound (crescendo, duration: 2 minutes) changes the volume 4 times whilst the alarm signal is heard.

Switching Off the Alarm Signal

► When the alarm triggers, press any button except the “☀️ / ZZ” button, or press and hold the “☀️ / ZZ” button for more than 3 seconds to stop the alarm signal.

Snooze Function:

- When the alarm time is reached, press the “☀️ / ZZ” button to stop the alarm signal and enter the snooze mode. At the end of the snooze timer, the alarm will ring again (snooze can be repeated)
- In snooze timing mode, press any button except the “☀️ / ZZ” button or press and hold the “☀️ / ZZ” button for more than 3 seconds to exit the snooze mode

Temperature | Humidity Reading | Record |Trend

- To toggle indoor/outdoor maximum, minimum temperature and humidity data, press the “**MAX** **MIN**” button: Once to show the maximum indoor temperature and humidity values. Twice to show the minimum indoor temperature and humidity values. Three times to return to the current indoor temperature and humidity levels.

- To reset the maximum and minimum indoor temperature and humidity, press and hold the “**MAX** **MIN**” button for

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about 2 seconds. This will reset all minimum and maximum data recorded to the current displayed values, including outdoor temperature records.

Note: When cleared, the above values will first be displayed as "--", and then the current values will be re stored.


► Indoor temperature | Humidity and outdoor remote temperature | Humidity will have trend change tips

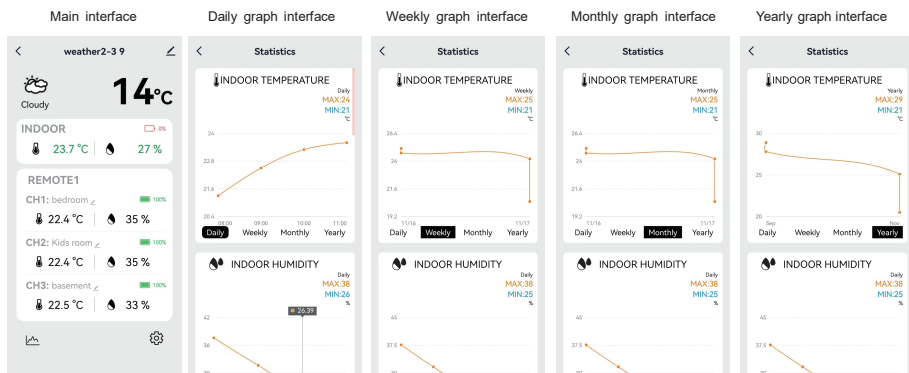
⬆: Detected value is rising.

⬇: Detected value is dropping.

No display: Detected value remains unchanged.

The Recording Curve of Temperature and Humidity in the APP

► Through the APP, you can view the historical changes of various detection data reported by the weather station, displayed in curve charts. Click the  icon on the home screen to access daily, weekly, monthly, and yearly change curve charts.




Feel Like Temperature | Air Pressure | PM2.5 | AQI | UV Index Reading

► Feel Like Temperature | Air Pressure | PM2.5 | AQI | UV Index comes from the network and is the current real-time data, automatically updated hourly from the network

Low Battery:

► If the battery icon  appears in the "IN" column, please replace the battery of the base station in time.

► If the battery icon  appears in the "OUT" column, please confirm the channel of the battery prompt and replace the remote sensor battery of the channel timely

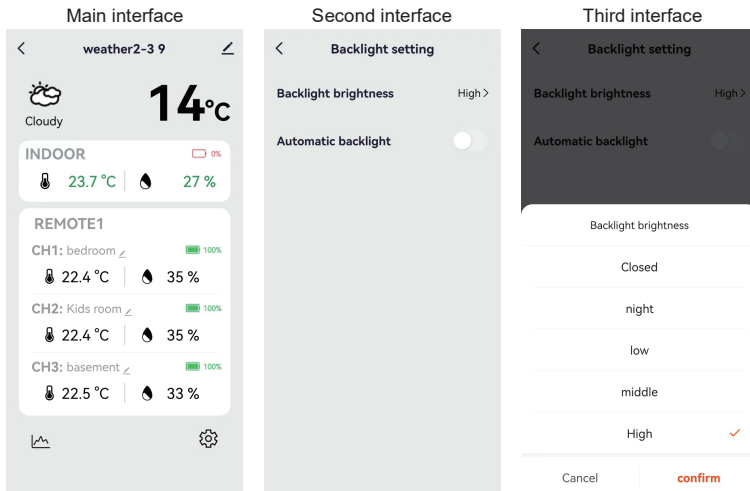
Background Lighting

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- ▶ If the product is powered by batteries, press the “☀️/ZZ” button to activate the backlight for 15 seconds..
- ▶ When the product is powered by the power supply adapter, the battery will automatically disconnect. The backlight will remain on continuously. Press the “⬇️” button to adjust the backlight brightness, you can adjust the 5 states: 4 different brightness backlight and turn off the backlight. When the backlight brightness is not at the maximum level, press the “☀️/ZZ” button to set the backlight to maximum brightness for 15 seconds.
- ▶ When the product is powered by the power supply adapter, press and hold the “☀️/ZZ” button for more than 3 seconds, and the main unit enters the light sensing mode, The light sensing icon “☀️” is displayed, and the main unit's backlight will automatically adjust its brightness based on the ambient light. The darker the ambient light, the dimmer the backlight.
- ▶ In light sensing mode, press the “⬇️” button to choose whether to turn off or turn on the backlight.

APP Setting Backlight

- ▶ When the weather station is paired and connected to WIFI, its time will be automatically synchronized to the local current time. At the same time, click the setting icon “⚙️” on the main screen of the APP to switch to the setting interface, and then click on “backlight Setting” in the menu bar to access the submenu for setting.



Explanation of Network Weather Forecast

- ▶ After the weather station connects to the WIFI hotspot, it automatically downloads the weather forecast for the current day and the next four days from the network, including the highest | lowest temperature.



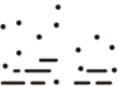
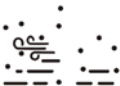

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► The weather station automatically uploads indoor/outdoor temperature/humidity data detected to the server, and the APP can automatically download this data from the server through the network.

► Weather station icons that can be displayed:

Sunny	Mostly sunny	Partly Cloudy	Mostly Cloudy	Cloudy	Patchy Rain
Mostly Rain	Heavy Rain	Heavy Rainstorm	Partly Shower	Showers	Strong Shower
Thunder Shower	Thunder	Thunderstorms	Thunder Showers Accompanied by Hail	Patchy Snow	Mostly Snow
Heavy Snow	Partly Snow Shower	Snow Shower	Rain and Snow	Rain and Hail	Hail

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Foggy	Haze	Floating Dust	Sand Blowing	Sandstorm	
					

► The main interface displays the predicted maximum and minimum temperatures for the current day. If you want to view data for the next four days, press the “” button to switch views.