INKBIRD

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ITH-20R

Manual

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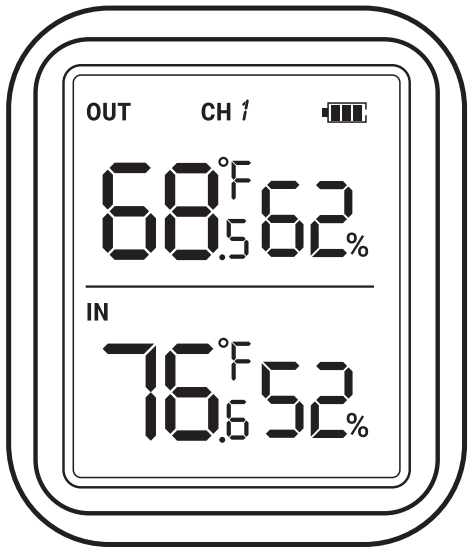
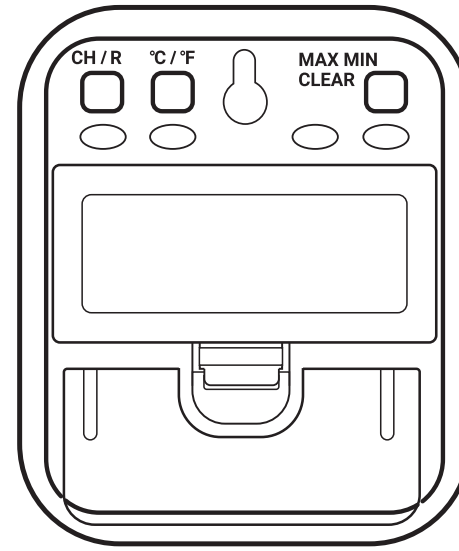
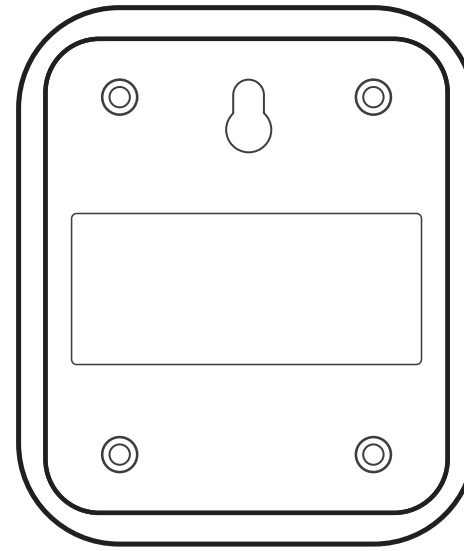
01 | Get to know the product

● Temperature and Humidity Monitor (Receiver)

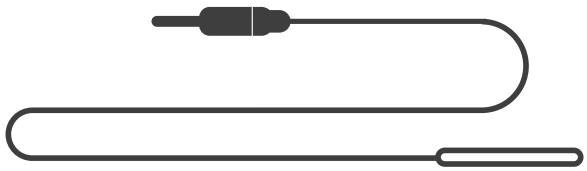




● Wireless Remote Sensor (Transmitter)



● **External Probe for wireless remote sensor**



External probe with cable

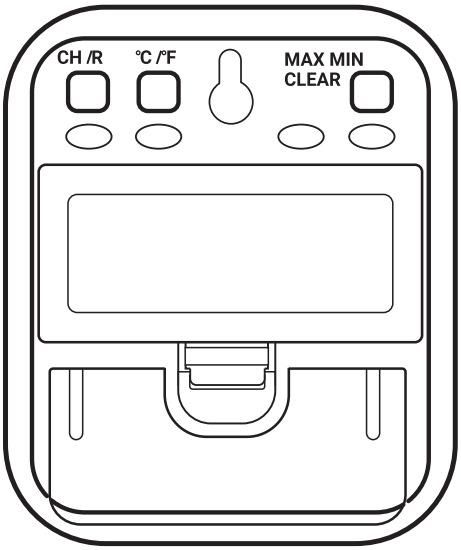
02 Function Parameter

● Battery: 2XAAA 1.5V (Temperature and Humidity Monitor/wireless remote sensor)
● 433Mhz Transmission Frequency
● Transmission distance: up to 300ft/90m in open space, if there is interference, the transmission distance will be limited
● wireless remote sensor support up to three channels and Rain-proof (The unit can be used at outdoor remote when raining.While cannot be submerged in water)
● Temperature and Humidity Monitor temperature measurement range:
-20°C ~ 60°C (-4°F ~ 140°F)

● wireless remote sensor temperature measurement range: -40°C ~ 70°C (-40°F ~ 158°F)
● wireless remote sensor external probe temperature measurement range: -50°C ~ 125°C (-58 °F ~ 257°F)
● wireless remote sensor supports external probe and built-in temperature probe using simultaneously
● Temperature display accuracy: 0.1°C (0.1°F)
● Temperature measurement accuracy: ±1.0°C (±1.8°F)
● Humidity measurement range: 10% ~ 95%
● Humidity measurement accuracy: ±5%
● Humidity display accuracy: 1%
● Temperature and humidity sampling period: 10 seconds
● Temperature and humidity maximum and minimum recording interval can support ALL-TIME or 24 hours, start recording time of ALL-TIME or 24-hour is from the power-on time or the last clear maximum/minimum time
● Out of range display “HH.H” or “LL.L”
● Warranty: 1 year

03 Button Icon Description

● Button Icon Description



CH/R:

Quickly press: When there are multiple wireless remote sensor, press to switch the current channel (CH1, CH2 or CH3) of the wireless remote sensor, and the wireless remote sensor can be fixed in the current channel. When switching to “CH8”, after 5s, the temperature and humidity of wireless remote
sensor will be displayed in turn, each will show 5

seconds. (Note: Up to 3 wireless remote sensors can be connected, CH1 = wireless remote sensor 1, CH2 = wireless remote sensor 2, and CH3 = wireless remote sensor 3)
Long press (5s): It can reset the synchronization between the Temperature and Humidity Monitor and all wireless remote sensor. After resetting, the wireless remote sensor needs to be re-powered (Re-install the battery) before it synchronize with the Temperature and Humidity Monitor. (The Temperature and Humidity Monitor and the wireless remote sensor can be synchronized within 2 minutes after the wireless remote sensor is re-powered on), when synchronizing, try to make the wireless remote sensor close to the Temperature and Humidity Monitor and please do not press any button.

°C/°F:

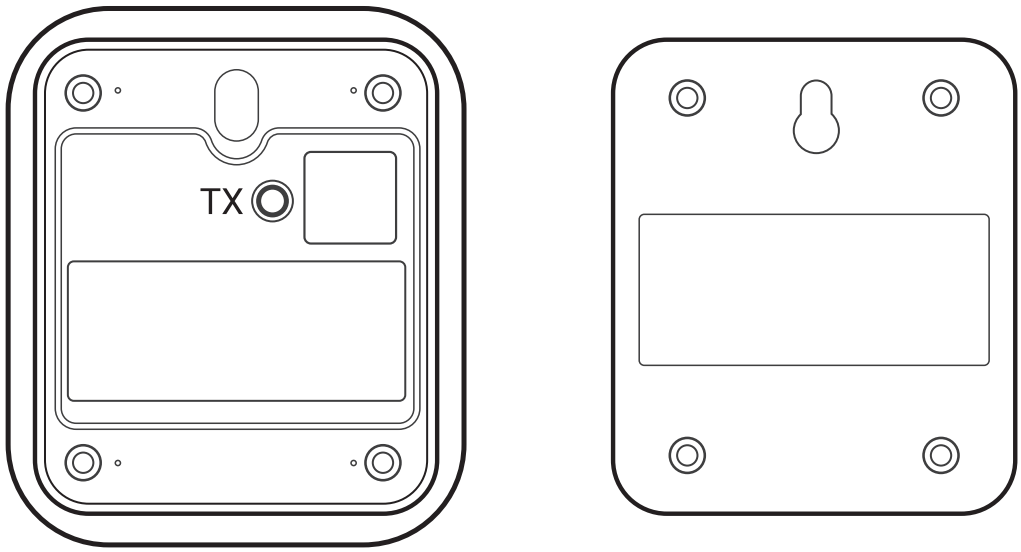
Quickly press:
1. When in normal working mode, press to switch temperature unit to °C or °F.
2. When the display is showing the maximum minimum temperature and humidity (press

MAX/MIN/CLEAR button to display the maximum minimum temperature and humidity), press to switch the maximum and minimum recording time interval of temperature and humidity to ALL-TIME or 24 hours.

MAX/MIN/CLEAR:

Quickly press: press to display the maximum minimum temperature and humidity. When there is no button operation, the current temperature and humidity display will be restored after 30s.
Long press (5s): long press to clear the maximum minimum temperature and humidity record value, then re-record.

● **wireless remote sensor (Transmitter)**



TX:

Quickly press: press to send temperature and humidity data to the Temperature and Humidity Monitor, when the transmission is successful, the red light of wireless remote sensor will flash once.
Long press (5s): reset the synchronization between the wireless remote sensor unit and the Temperature and Humidity Monitor. After resetting, the wireless remote sensor needs to be powered on again to
synchronize with the Temperature and Humidity

Monitor, when synchronizing, try to make the wireless remote sensor close to the Temperature and Humidity Monitor. The Temperature and Humidity Monitor and the wireless remote sensor can be synchronized within 2 minutes after the wireless remote sensor is re-powered on (Re-install the battery).

04 Synchronization and reset of Temperature and Humidity Monitor and wireless remote sensor

4.1.Synchronization

A. The first step is to correctly install the battery of the Temperature and Humidity Monitor to power on.

B. After Temperature and Humidity Monitor is powered on, then please install battery correctly for wireless remote sensor power on, and try to close the wireless remote sensor to the Temperature and Humidity Monitor. (Note: When

the wireless remote sensor is synchronized with the Temperature and Humidity Monitor, it has to be powered on again (Re-install the battery). Please synchronized within 2 minutes after power-on. After 2 minutes of power-on, it is normal working time, then it cannot be synchronized with the Temperature and Humidity Monitor.)

C. If the battery installation is successful, the Temperature and Humidity Monitor and wireless remote sensor will be powered on normally, and the Temperature and Humidity Monitor and the wireless remote sensor will complete synchronization within 2 minutes. If fail to synchronization, the wireless remote sensor can be re-powered to complete synchronization.

D. Once the Temperature and Humidity Monitor and the wireless remote sensor are synchronized, the wireless remote sensor is successfully registered, the Temperature and Humidity Monitor will display the corresponding wireless remote sensor synchronization channel, and the registration information of the wireless remote

sensor is recorded sensor (After the Temperature and Humidity Monitor is powered off and restarted, it is not necessary to re-synchronize with the wireless remote sensor). When the red light of the wireless remote sensor flashes once, it indicates that the data is successfully transmitted once, and when the RF signal icon of the corresponding channel of the wireless remote sensor is light (lighting for 5s), it means the Temperature and Humidity Monitor successfully receives the data once and updates the current temperature and humidity in real time.

4.2.Reset synchronization

● Press and hold the TX button (5s) of wireless remote sensor to reset the synchronization between the wireless remote sensor and the Temperature and Humidity Monitor. If you need to re-synchronize, follow the above steps A~D to synchronize.

● Press and hold the CH/R button (5s) of Temperature and Humidity Monitor to reset the synchronization between the Temperature and Humidity Monitor and all the wireless remote

sensors. If you need to re-synchronize, follow the above steps A~D to synchronize.

● After the Temperature and Humidity Monitor and the wireless remote sensor are synchronized, if the Temperature and Humidity Monitor does not receive the data update from the wireless remote sensor of the corresponding channel for a long time (about 10 minutes or more), “--.-” will be displayed.

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