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› Inkbird ITH-20R Digital Hygrometer Indoor Outdoor Thermometer Wireless Room Thermometer with Sensor Waterproof Accurate Temperature Display for House Room Kitchen Courtyard Brewhouse Public Places User Manual

Inkbird ITH-20R

Inkbird ITH-20R Digital Hygrometer & Thermometer User Manual

Model: ITH-20R | Brand: Inkbird

PRODUCT OVERVIEW

The Inkbird ITH-20R is a wireless indoor/outdoor thermometer and hygrometer designed to provide accurate and reliable temperature and humidity readings. It consists of a main display unit and a remote sensor with an external probe, allowing for versatile monitoring in various environments.



Figure 1: Inkbird ITH-20R Main Display Unit and Remote Sensor

PRODUCT COMPONENTS

The package includes the following items:

- 1 x ITH-20R-I Main Display Unit (Receiver)
- 1 x ITH-20-O Remote Sensor (Transmitter)
- 1 x External Temperature Probe (2m/6.56ft)
- 1 x Small Screwdriver (for battery compartment)
- 1 x Instruction Manual
- 1 x Packing Box



Related parameters:

Brand: **INKBIRD**
Model: **ITH-20R**
Transmission Distance: **≈300 Feet**
Maximum Available Transmitters: **3**
Power Supply: **2 AAA Batteries**
Receiver Size: **75*64*21mm**
Transmitter Size: **75*64*21mm**
Temperature Measurement Range of the Receiver: **-20~60°C (-4~140°F)**
Humidity Measurement Range of the Receiver: **10~95%**
Temperature Measurement Range of the Transmitter: **-40~70°C (-40~158°F)**
Humidity Measurement Range of the Transmitter: **10~95%**
Temperature Measurement Range of the Transmitter Probe: **-50~125°C (-58~257°F)**
Temperature Measurement Accuracy: **±1°C**
Humidity Measurement Accuracy: **±5%**
Sampling Time: **10 Seconds**
Out of Range Display: **“HH.L” or “LL.L”**

Figure 2: Product Packing List

SETUP

Battery Installation

Both the main display unit and the remote sensor require 2 x AAA batteries each (not included).

1. **Main Display Unit:** Open the battery compartment cover on the back of the main unit. Insert 2 x AAA batteries, ensuring correct polarity (+/-). Close the cover.
2. **Remote Sensor:** Use the provided screwdriver to unscrew the four screws on the back of the remote sensor. Carefully remove the back cover. Insert 2 x AAA batteries, ensuring correct polarity (+/-). Replace the cover and secure it with the screws to maintain its waterproof seal.

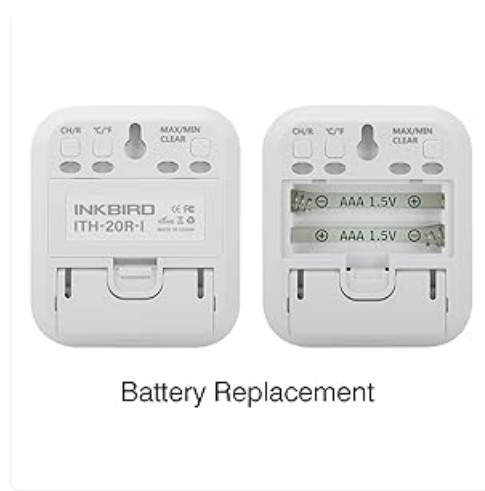


Figure 3: Battery Replacement for Main Unit and Remote Sensor

Placement Options

The main display unit offers two convenient mounting options:

- **Tabletop:** Utilize the foldable stand on the back of the unit to place it on any flat surface.
- **Wall-Mountable:** Use the integrated hanging hole on the back to mount the unit on a wall.

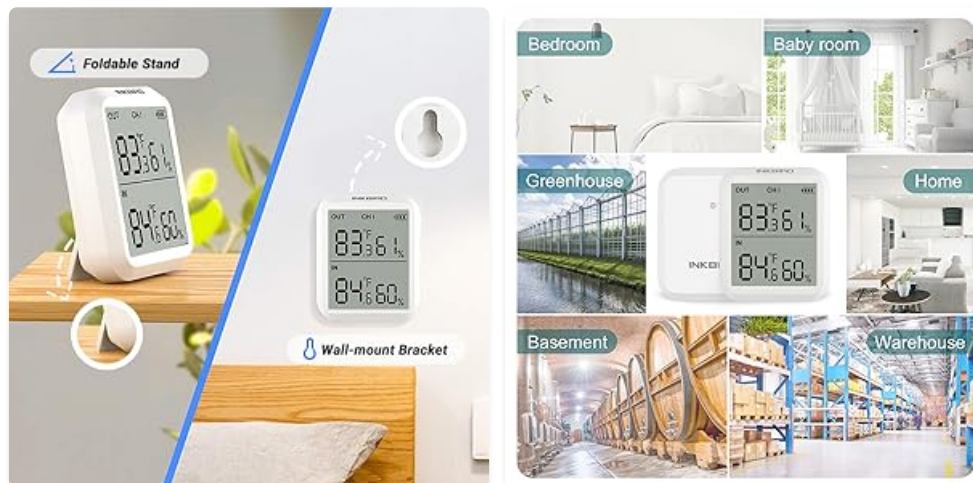


Figure 4: Tabletop and Wall-Mountable Design

Connecting the External Probe

The external probe can be plugged into the remote sensor for specialized temperature measurements, such as in liquids or narrow spaces.



Figure 5: Remote Sensor with External Probe

OPERATING INSTRUCTIONS

Display Overview

The main display unit shows indoor temperature and humidity, as well as outdoor temperature and humidity from the remote sensor. When the external probe is connected, the outdoor reading will alternate between the remote sensor's internal reading and the external probe's reading.



Figure 6: Main Display Unit Buttons

Button Functions (on Main Display Unit)

- **[CH/R] Button:** Press to switch between different channels (if multiple remote sensors are paired). Press and hold to reset/resync the unit.
- **[°F/°C] Button:** Press to switch the temperature display between Fahrenheit (°F) and Celsius (°C).
- **[MAX/MIN CLEAR] Button:** Press to view the maximum and minimum recorded temperature and humidity values. Press and hold for 2 seconds to clear the memory of MIN/MAX data.

Wireless Transmission

The remote sensor transmits data to the main display unit up to 300 feet in open space. Data updates every 10 seconds, providing instant monitoring.

PRODUCT PACKING LIST



Figure 7: Wireless Data Transmission

MAINTENANCE

- Clean the units with a soft, damp cloth. Do not use abrasive cleaners or immerse the units in water.
- Ensure the remote sensor's battery compartment is securely closed to maintain its waterproof rating.
- Replace batteries when the low battery indicator appears on the display.

TROUBLESHOOTING

- **No Reading/Display Issues:** Check battery installation and polarity. Replace batteries if low.

- **No Signal from Remote Sensor:** Ensure the remote sensor is within the 300ft transmission range. Press and hold the [CH/R] button on the main unit to re-sync. Check the remote sensor's batteries.
- **Inaccurate Readings:** Allow units to stabilize for at least 15-30 minutes after setup or significant temperature changes. Ensure sensors are not exposed to direct sunlight or extreme drafts.
- **"HH.L" or "LL.L" Display:** This indicates that the temperature or humidity is out of the measurement range.

SPECIFICATIONS

Related parameters:

Product Brand: INKBIRD

Product Number: ITH-20R

Transmission Distance: Up to 300ft in open space

Connectable Extension: Three

Power Supply: 2 AAA Batteries (Not Included)

Host Temperature Range: -20°C~60°C (-4°F~140°F)

Host Humidity Measurement Range: 10~95%

Extension Temperature Range: -40~70°C(-40°F~158°F)

Extension Humidity Measurement Range: 10~95%

Extension External Probe Temperature Range: -50°C~125°C (-58°F ~257°F)

Temperature Measurement Accuracy: ±1°C (±1.8°F)

Humidity Measurement Accuracy: ±5%

Temperature and Humidity Sampling Period: 10 seconds

Out of range display "HHH"or "LLL "

Figure 8: Related Parameters

Parameter	Value
Brand	Inkbird
Model Number	ITH-20R
Transmission Distance	Up to 300 feet (in open space)
Maximum Available Transmitters	3
Power Supply	2 x AAA Batteries (Main Unit), 2 x AAA Batteries (Remote Sensor)
Receiver Size	75mm x 64mm x 21mm (2.95"W x 2.52"H)
Transmitter Size	75mm x 64mm x 21mm
Host Temperature Range	-20°C~60°C (-4°F~140°F)
Host Humidity Range	10~95%

Transmitter Temperature Range	-40°C~70°C (-40°F~158°F)
Transmitter Humidity Range	10~95%
External Probe Temperature Range	-50°C~125°C (-58°F~257°F)
Temperature Accuracy	±1°C (±1.8°F)
Humidity Accuracy	±5%
Sampling Time	10 seconds
Out of Range Display	"HH.L" or "LL.L"

WARRANTY & SUPPORT

For detailed warranty information and customer support, please refer to the official user manual PDF or visit the Inkbird store.

- Official User Manual (PDF): [Download Here](#)
- Inkbird Store: [Visit Store](#)

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