

Product Specification for TT001-ZA

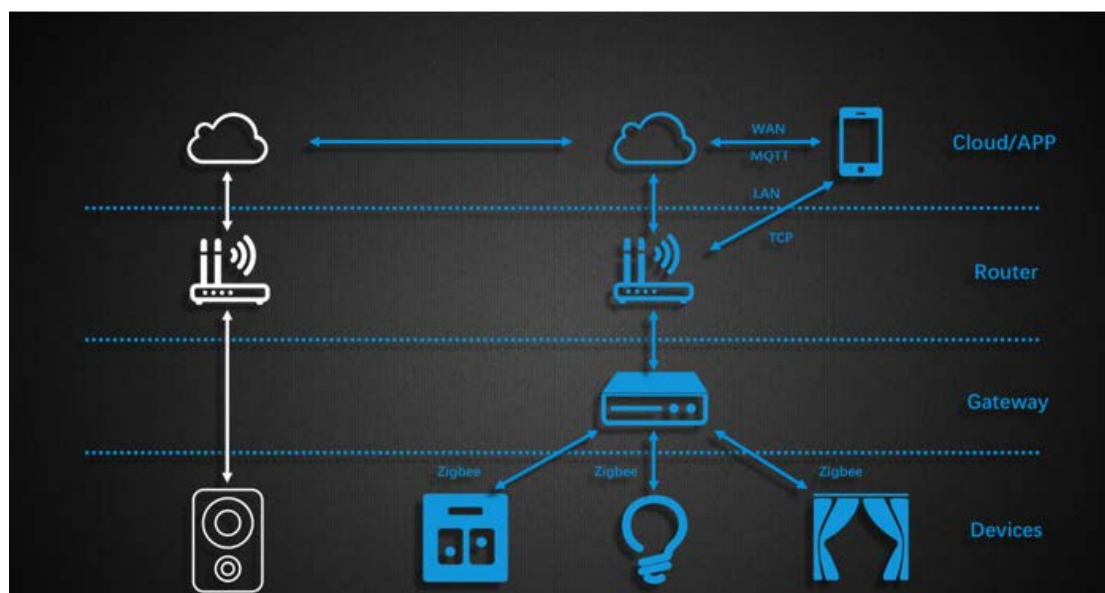
T&H sensor

1. Product Profile

1.1 Overview

As a low-cost product solution developed by Hangzhou Tuya Information Technology Co., Ltd. based on the Zigbee module (TYZS2), the TT001-ZA T&H sensor can help clients realize mass production in a short time.

1.2 Application Framework



2. Product Specification

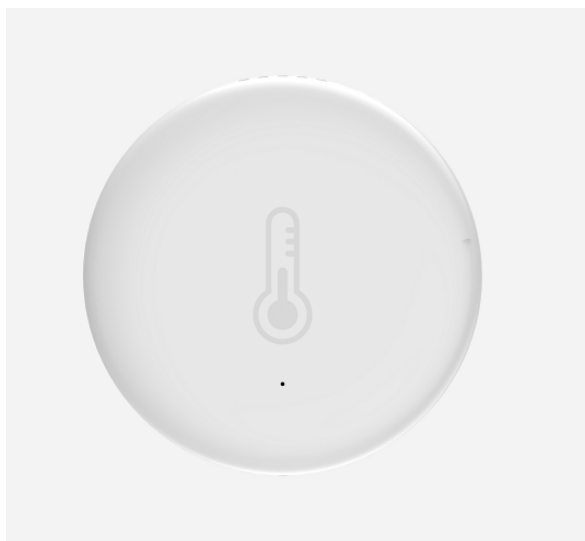
2.1 Basic Parameters

- ✧ Name: T&H sensor
- ✧ Model: TT001-ZA
- ✧ Supported mobile phone operating systems: Android 4.0+; iOS 7.0+
- ✧ Battery type: 3V CR2032

2.2 Technical Indexes

Item	Parameter
Transport protocol:	Zigbee
Wireless frequency:	2.4 GHz
Working voltage:	3.0V
Detection range:	Ambient temperature and humidity
Working current (reported):	5 mA on average (Zigbee)
Standby current:	<3 uA
Battery life:	More than 12 months (calculated by 210 mAh battery)
Application scope:	Indoor use
Installation:	Paste
Transport distance:	Indoor: 10 m - 30 m, outdoor: 30 m - 50 m (It is for reference only, because parameters may vary with different application environment and transport modes.)
Battery model:	CR2032
Physical switch:	One
Indicator light:	One

2.3 Appearance



3. Product Features

3.1 Indicator Light and Status Switching

Item	Description
Power on	The blue light is steady on for 5s
Distribution network state	The blue light fast flashes (200 ms)
Working mode	The blue light is steady off
Data report	The blue light is steady off

3.2 Data report Frequency

- ✧ Report frequency: The ambient temperature and humidity are detected every 5 minutes. When the temperature change is over 0.6°C and the humidity change is over 6%, data will be reported.
- ✧ Temperature detection scope: -20°C to 60°C (subject to the product working temperature)
- ✧ Relative humidity detection scope: 0% to 100% (no condensation)

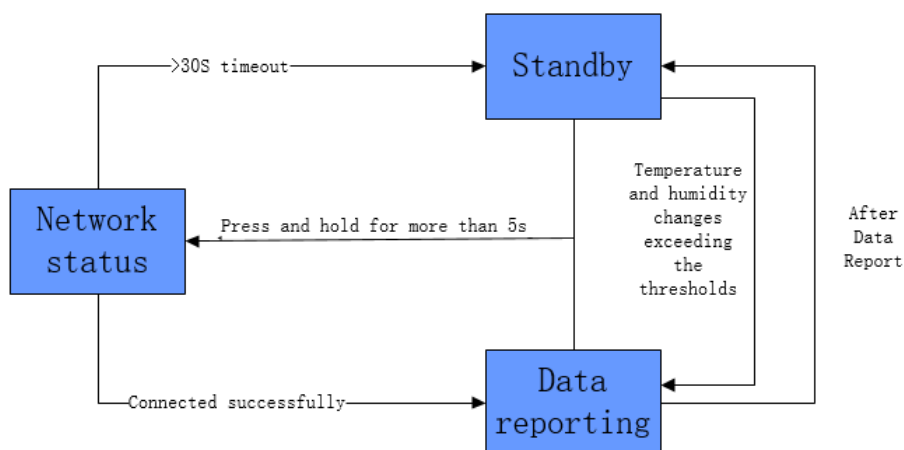
3.3 Reset Mode

Long press the button of the device with a reset pin for 5s to make the blue indicator light fast flash, thus initiating reset and entering the distribution network mode. After ensuring that distribution network is available for the gateway, use the mobile phone APP to connect with the device.

3.4 Change Batteries

Open the battery cap with a coin to change batteries. Please purchase CR2032 batteries with guaranteed quality.

3.5 Logic of Distribution Network Report



3.6 Functional Characteristics

Item	Description
Activity detection	Monitor the temperature and humidity data in your room.
Push	After message push is enabled on the APP, if the data exceeds the threshold, the cloud will push a message to the mobile phone through the Zigbee gateway.
Battery energy detection	Battery energy report
Linkage	Add a product for linkage through the APP (e.g. intelligent light or curtain) and configure options. When the set threshold is reached, turn on/off the intelligent light or open/close the curtain.
History	Seven-day history browse is supported.

3.7 Environmental Parameters and Notes

- ✧ Working temperature: -20°C to 60°C
- ✧ Relative humidity: 0% to 100% (no condensation)
- ✧ Placement: Avoid environment with smog or water like bathrooms and kitchens.
- ✧ Installation: Pasting

3.8 Control Panel and APP

The control panel uses the public version, and supports Tuya APP and OEM APP.

4. Product Packaging

4.1 Packaging Materials

1. Temperature and humidity sensor
2. Reset pin
3. Manual
4. Battery

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.