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Milesight TS30X Temperature Sensor User Guide

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Milesight TS30X Temperature Sensor

Product Information

The TS30x Temperature Sensor is a versatile device that allows for accurate temperature measurement in various settings. It comes with a range of optional accessories, including a PT100 Temperature Probe, a Magnet Switch Sensor with 3M Tapes and Mounting Screws, and a Glass Bead Thermal Buffer Bottle. The sensor features an LCD display with an NFC area, a Type-C USB port for connectivity, and various buttons for different functions.

Packing List

- Optional Sensor and Sensor Accessories
- PT100 Temperature Probe
- Magnet Switch Sensor (With 3M Tapes and Mounting Screws)
- Glass Bead Thermal Buffer Bottle

Hardware Introduction:

- LCD Display
- NFC Area
- Type-C USB
- Mounting Holes
- Power Button
- Sensor Channel LED Indicator
- Batteries Reset Button

Button Descriptions:

- **Power Button:** Press and hold for more than 3 seconds to power on/off the device. Quick press once to refresh the latest temperature of the current channel. Quick press twice to switch the temperature display between channels (only applicable to TS302 with two temperature sensors).
- **Reset Button:** Press and hold for more than 10 seconds to reset the device to factory default settings.

Configuration Guide

To configure the device, you can use either the Milesight ToolBox App on an NFC-supported smartphone or the ToolBox software on a computer with a type-C USB connection. Follow the respective steps below:

Using Milesight ToolBox App (Android or iOS):

1. Download the Milesight ToolBox App on an NFC-supported smartphone.
2. Open the app and attach the NFC area of the smartphone to the device.
3. Click "NFC Read" to read the device and click "Write" to configure the device settings.
4. It is recommended to change the default password (123456) for security reasons.

Using ToolBox Software on a Computer:

1. Download the ToolBox software from the Milesight official website.
2. Remove the USB waterproof plug from the bottom of the device and connect it to the computer using a type-C USB cable.
3. Open the ToolBox software and select the type "General" and the serial port as "USB port".
4. Type the login password (default: 123456) to log in to the device for checking and configuring settings.
5. It is recommended to change the default password for security reasons.

Installation:

1. Fix the wall plugs to a flat surface according to the device's mounting holes.
2. Securely attach the device to the wall plugs using screws.
3. Position the LCD display vertically on the ground below eye level for clear visibility.
4. Cover the screws with cover caps.

Magnet Switch Installation:

Option 1: Fix the two magnet parts with 3M tape.
Option 2: Fix the two magnet parts with screws. Ensure proper alignment.

Thermal Buffer Bottle Installation:

Unplug the stopper inside the bottle cap, then restore the cap and insert the PT100 probe into the bottle. Place the bottle in locations like freezers and refrigerators for more accurate temperature measurement.

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.

Quick Start Guide and Cloud App

- All software and files can be downloaded from **https://www.milesight.com/iot/resources/download-center/#documents**.
- For more information, you can visit the website of Milesight IoT Co., Ltd. at **https://www.milesight.com**.
- **Address:** Building C0, Software Park Phase III, Xiamen 361024, Fujian, China

Packing List

1 × TS30x Device

2 × Mounting Kits

2 × Screw Caps

1 × Quick Start Guide

1 × Warranty Card

1 × Type-C Cable & Power Adapter (Optional)

Optional Sensor and Sensor Accessories
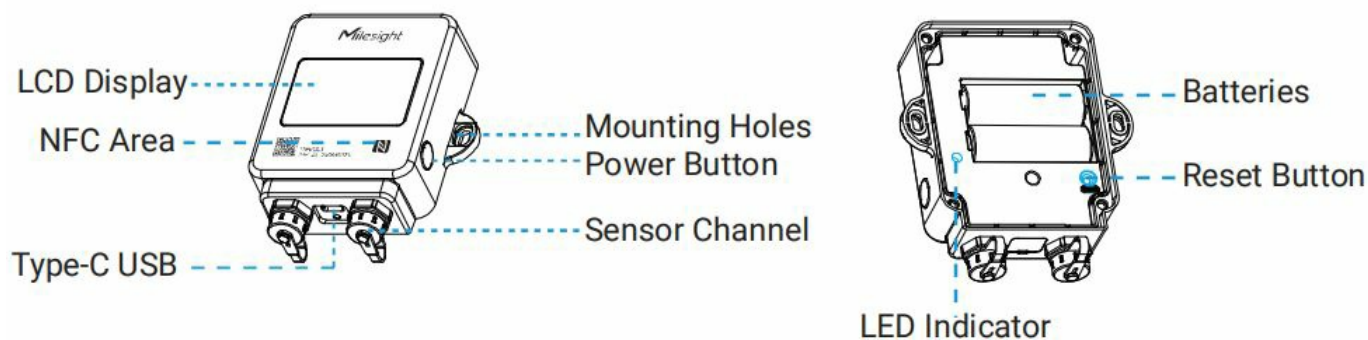

PT100 Temperature Probe

Magnet Switch Sensor (With 3M Tapes and Mounting Screws)

Glass Bead Thermal Buffer Bottle

Hardware Introduction

Button Descriptions

Power Button

Function	Action	LCD Display
Power On/Off	Press and hold the power button for more than 3 seconds	Power On: All icons show 3s
		Power Off Off
Update Temperature	Quick press the power button once	Fresh the latest temperature of the current channel
Switch Temperature Display (TS302 with both temperature sensors only)	Quick press the power button twice	Display another channel's latest temperature

Reset Button

Function	Action	LED Indicator
Reset to Factory Default	Press and hold the reset button for more than 10 seconds	Blinks quickly

Configuration Guide

Method 1: Configured by NFC
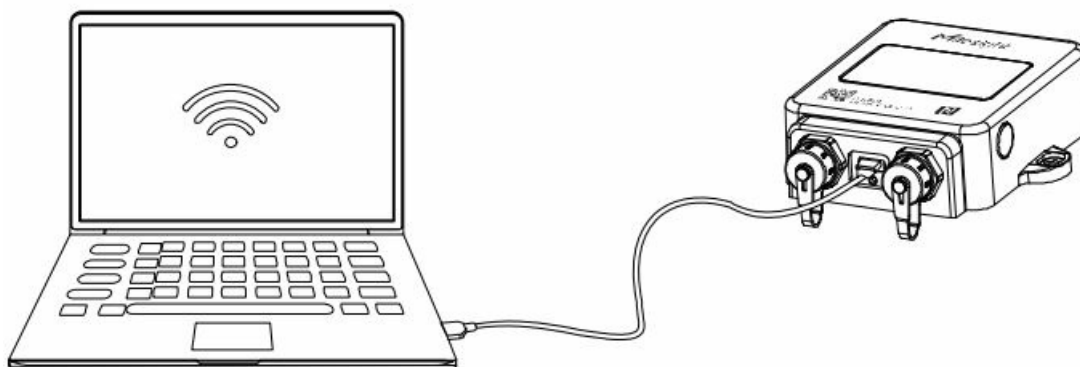

Android   iOS

1. Download the "Milesight ToolBox" App on an NFC-supported smartphone.
2. Open the "Milesight ToolBox" App and attach the NFC area of the smartphone to the device.

Click "NFC Read" to read the device and click "Write" to configure the device settings. It's suggested to change the default password for security reasons. (Default password: 123456)
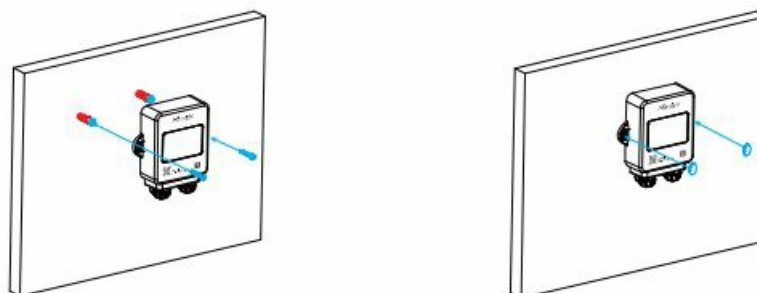
Method 2: Configured by USB

1. Download ToolBox software from Milesight's official website.
2. Remove the USB waterproof plug from the bottom of the device, and connect it to the computer via a type-C USB cable. After connecting, the PDF file can be exported directly from the USB drive folder.
3. Open ToolBox software, select type as "General" and select the serial port as USB port, then type the login password (Default password: 123456) to log in to the device to check and configure a device. It's suggested to change the default password for security reasons.

Installation

Device Installation

1. Fix the wall plugs to a flat surface according to the device mounting holes, then secure the device to the wall plugs using screws. When installing, please ensure the LCD display is positioned vertically on the ground below eye level for clear visibility of the content.
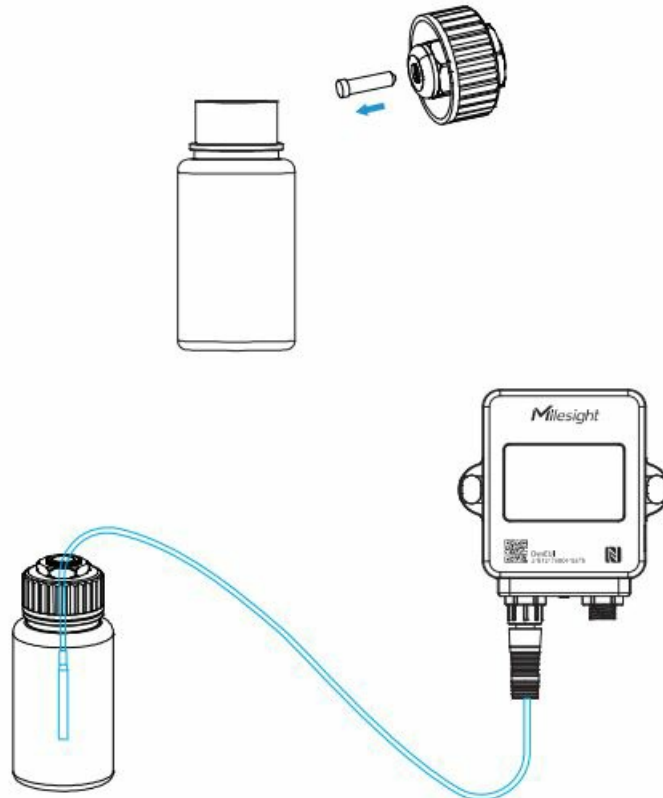2. over the screws with cover caps.

Magnet Switch Installation

Fix the two magnet parts with 3M tape or screws, the two parts should be aligned.

Fixed by Screws   Fixed by 3M Tape   Installation Example

Thermal Buffer Bottle

It is necessary to unplug the stopper inside the bottle cap, then restore the cap and insert the PT100 probe into the bottle. When using, it can be placed to places like freezers and refrigerators to ensure more accurate temperature measurement

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.

2. This device must accept any interference received, including interference that may cause undesired operation.

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 the receiver.

- Connect the equipment to 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.

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 a minimum distance of 20cm between the radiator& your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

- All software & files can be downloaded from **https://www.milesight.com/iot/resources/download-center/#documents**.

Quick Start Guide   Cloud App

- **Better Inside, More in Sight**
- **Milesight IoT Co., Ltd. www.milesight.com**
- **ADD: Building C09, Software Park Phase I, Xiamen 361024, Fujian, China**

Documents / Resources

	Milesight TS30X Temperature Sensor [pdf] User Guide 2AYHY-TS30X, 2AYHYTS30X, TS30X Temperature Sensor, Temperature Sensor, Sensor

References

- **M Milesight | 5G, AI, IoT and LoRaWAN**
- **M Download Center**