



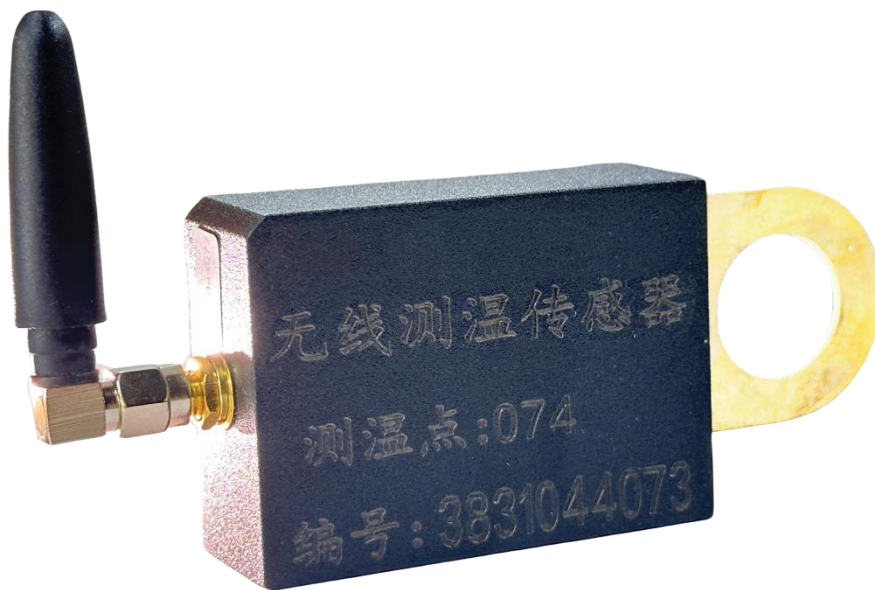
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Copper sheet wireless temperature sensor KL-DS33YS Manual





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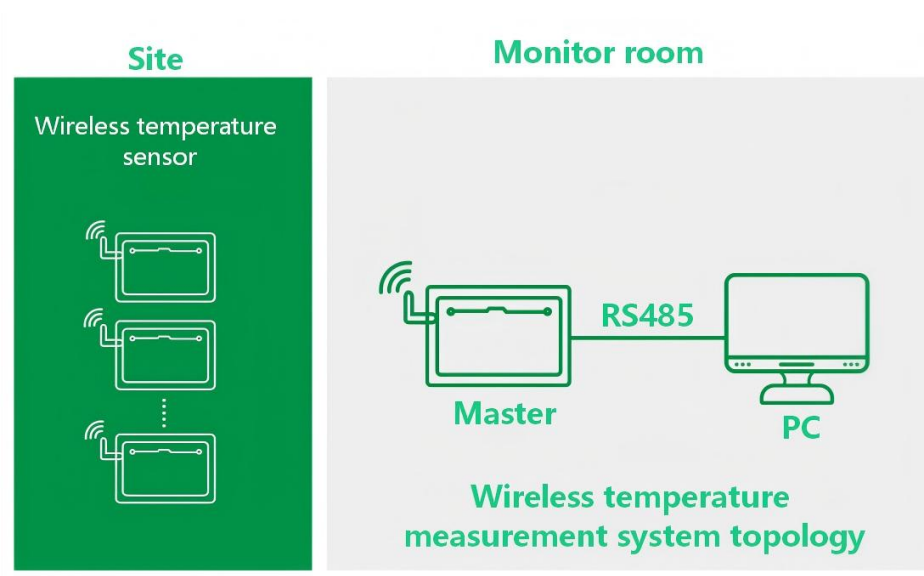
I. Product Overview

The KL-DS33YS copper-plate wireless temperature sensor is a temperature sensor featuring ultra-low power consumption, high accuracy, and wireless transmission. It consists of a temperature sensor, signal modulation and amplification device, logic control circuit, wireless communication circuit, lithium battery, and antenna. This sensor uses ultra-low power wireless communication to transmit the collected temperature data to the wireless temperature measurement host via a wireless network.

This temperature sensor features single-channel temperature detection and is directly mounted on a copper plate. It is primarily used to measure the temperature of the surface or contacts of high-voltage energized objects, such as industrial equipment, high-power motors, exposed contacts in high-voltage switchgear, busbar connections, outdoor disconnectors, and transformers.

II. Structure of Wireless Temperature Measurement System

2.1 Wireless Temperature Measurement System Structure Diagram





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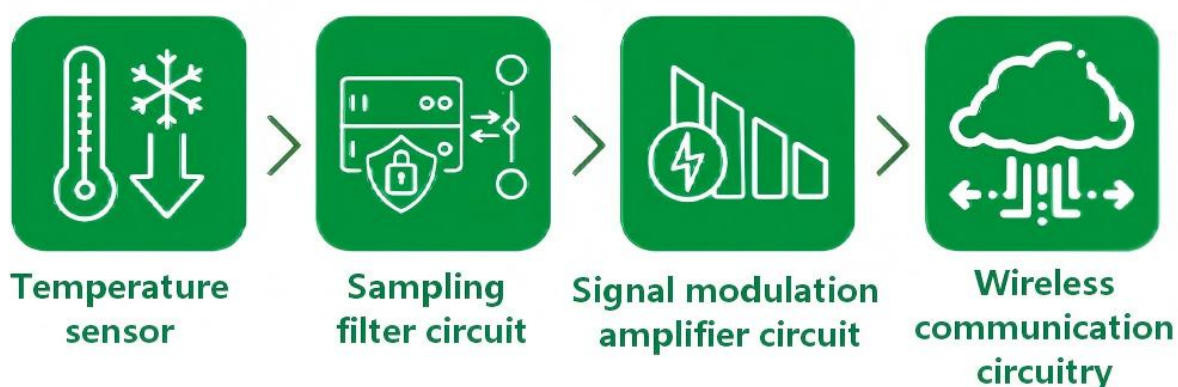
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2.2 Schematic diagram of wireless temperature sensor

Principle and structure of wireless temperature sensors



2.3 Function introduction

Main functions	Function introduction
Temperature detection function	Real-time detection of the current temperature of the measured part
Battery voltage self-test function	Real-time detection of the internal battery voltage value of the sensor
Note: All data detected by the sensors are uploaded to the wireless temperature measurement host via wireless transmission.	



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III. Main Technical Parameters

Temperature measurement range	-40 ~ +200°C
Measurement accuracy	±1°C
Thermistor	PT1000
Temperature sampling frequency	Default 10 seconds
Communication methods	LORA
wireless frequency	470-510MHz
Wireless transmission distance	≤800 meters
Battery lifespan	5-8 years
Installation method	Bolt fixing
General	105mm
External dimensions	60mm*45mm*25mm,
Protection level	IP68
Installation location	Outdoor isolating switches, wall-penetrating cable clamps, transformer inlet and outlet terminals, outdoor flexible copper busbar connections, and other similar components.



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IV、 Installation site case

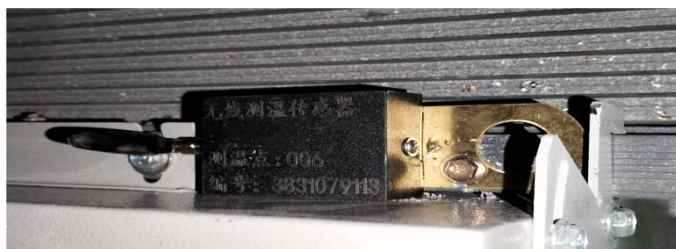
Secured with screws

Step 1: Pair the sensor with the temperature measurement host.

Step 2: Pair the sensor with the temperature measurement area.

Step 3: Fix the sensor to the temperature measurement area.

Step 4: If the sensor probe is wired, use the probe tip at the end of the wire to attach it to the temperature measurement area.





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*This information product images and technical data is for reference only, if subject to update without prior notice, the specific content of the right to interpret ASY Electronics (Jiaxing) Co., Ltd.