



ASY Electronics (Jiaxing) Co., Ltd

Business inquiries: +86 181 5734 3325

E-mail: sales@king-sen.com Website: www.asyjx.com

Address: Room 302, Building 11, No. 79 Jinsui Road, Economic and Technological Development Zone, Jiaxing , Zhejiang P.R. China

Magnetic wireless temperature sensor

KL-DS31YS Manual





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Table of contents

I. Product Overview	3
II . Structure of wireless temperature measurement system	33. Main
Technical parameters	4-54



I、 Product Overview

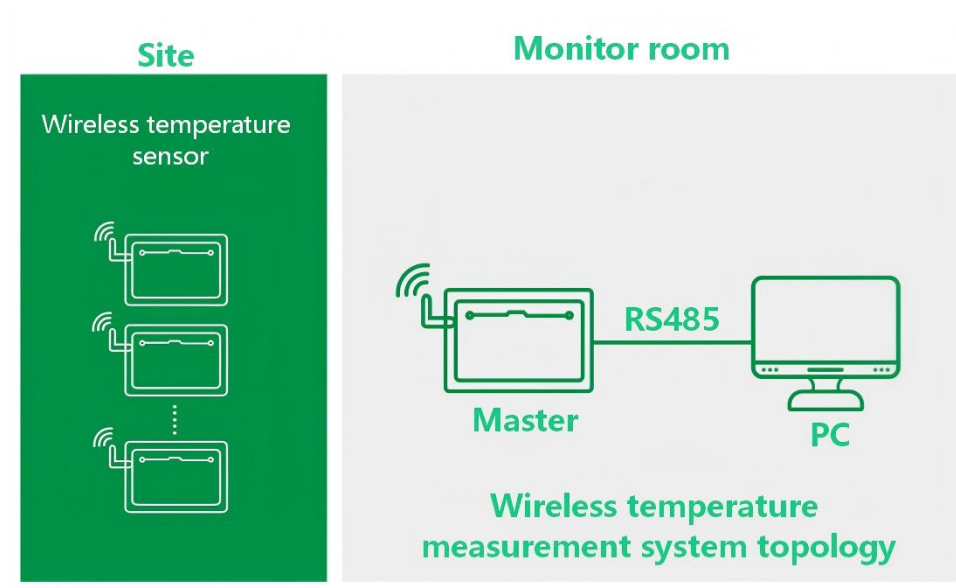
Magnetic wireless temperature sensor is a temperature sensor featuring ultra-low power consumption and high accuracy. It consists of a temperature sensor, signal modulation and amplification device, logic control circuit, wireless communication circuit, lithium battery, and antenna. This sensor uses 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 uses a magnetic mounting method for easy installation. It is primarily used to measure the temperature of the surface or contacts of high-voltage energized objects, such as the operating temperature of industrial production equipment, high-power motors, exposed contacts in high-voltage switchgear, busbar connections, outdoor disconnect switches, and transformers.

II、 Wireless temperature measurement system structure

2.1 Wireless Temperature Measurement System Structure

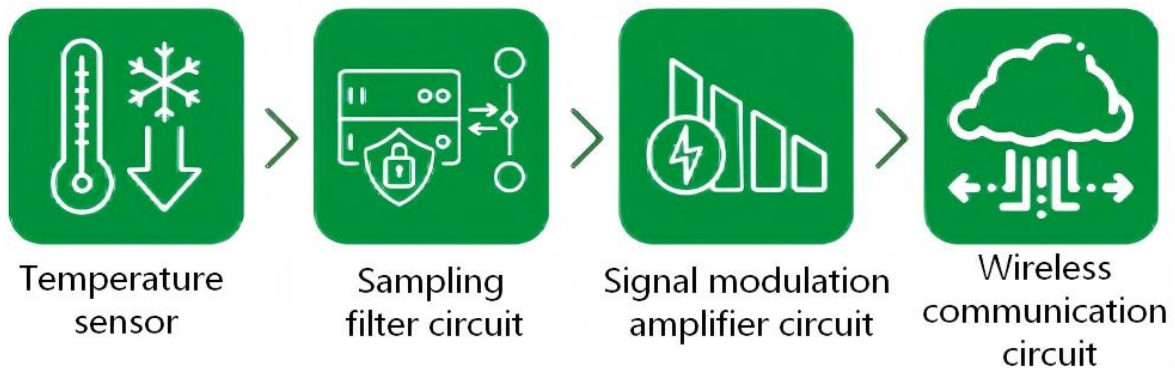
Diagram





2.2 Schematic diagram of wireless temperature sensor

Principle and structure of wireless temperature measurement sensor



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.	

III、 Main technical parameters

Temperature measurement range	-40 ~ +200°C
Measurement accuracy	±1°C



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Thermistor	PT1000
Temperature Sampling frequency	Default 10 seconds
Communication methods	LORA
Mireless frequency	470-510MHz
Wireless transmission distance	≤800 meters
Battery lifespan	5-8 years
Installation method	Magnetic fixation
General	105mm
External dimensions	85mm*85mm*34mm,
Installation location	Outdoor isolating switches, wall-penetrating cable clamps, transformer inlet and outlet terminals, outdoor flexible copper busbar connections, and other components.

IV、 Installation method

Use magnetic fixation

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.

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V、 Contact Us



Business Phone: 18157343325 Lila Xu

Technical Phone: 18057302496 Wailly Yang

E-mail: sales@king-sen.com

Office website: www.asyjx.com

Address: Room 302, Building 11, No. 79 Jinsui Road,
Economic and Technological Development Zone,
Jiaxing, Zhejiang P.R. China

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