

SPEC NO.: D33020260628

Specification

TO:STE
Model Name: Sensor
PART NO:ZCFLATSTRAP
CUSTOMER PART NO.:

Approval sheet:

Approved	Yes
	No.
Customer's comments are welcomed here.	
Pls return this copy as a certificate of your approval by Email.	
Approved By	Date: _____

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History Record

Date	Part No.	SPEC No.	Description.	Remarks.
2018-11-17			Initial issue	
RoHS Compliant Lead free Lead-free soldering	✓ conflict mineral free ✓ REACH compliant			
ISO9001:2000	ISO14001:2004	Approved by	Check by	Design by
		Nov-17-2018	NOV-17-2018	NOV-17-2018
Reversions	Total Page	<i>Xu gang dong</i>	<i>Liu jun</i>	<i>Wang kon</i>

1. Overview

The SAW wireless passive temperature sensor is designed for temperature measurement on metal surfaces and serves as a temperature measuring component directly mounted on the surface of measured objects. Adopting SAW passive wireless transmission technology, it acts as the terminal of the SAW passive wireless temperature measurement system. It receives inquiry RF signals and transmits RF signals carrying temperature data back to the collector.

2. Product Features

- .Direct contact with measuring points, wide measuring range, high precision and excellent high temperature resistance
- .Real-time transmission of temperature data for easy monitoring
- .Passive component, safe operation and maintenance-free
- .Two fixing options: nut fastening or fixture clamping

3. Applications

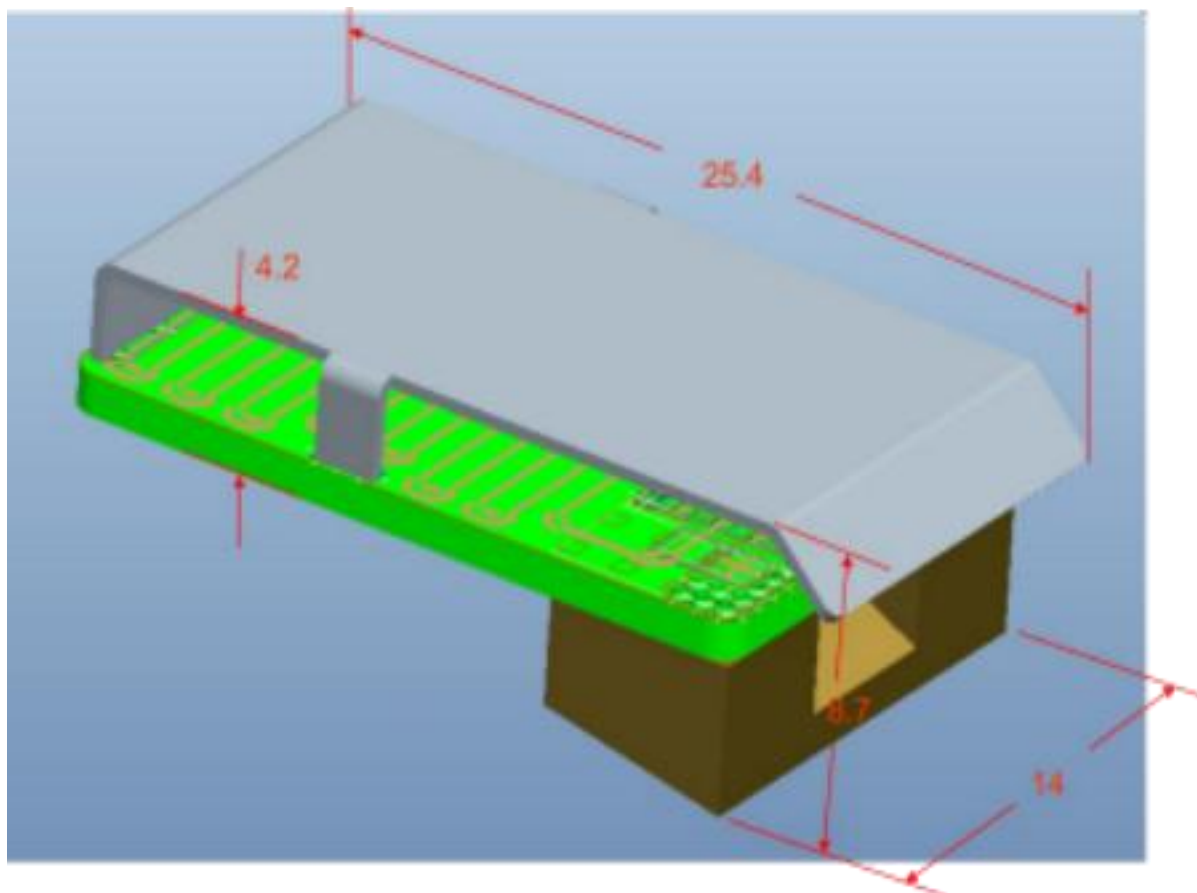
- .Critical temperature monitoring points for high-voltage transformation and low-voltage power distribution facilities of power grids
- .Temperature monitoring points in computer rooms, production lines and various equipment.

4. Typical Application

Temperature measurement at the petal-shaped moving contact fingers of movable circuit breakers in 10kV high-voltage switch gears.



5. Overall Dimensions



6. Product Technical Specifications

No.	Item	Technical Parameters
1	Power Supply Mode	Fully passive, no power supply required
2	Working Principle	Copper substrate directly contacts measuring points for heat conduction; passive wireless signal transmission
3	Operating Ambient Temperature	-50℃ ~ 150℃ (Sensor remains undamaged within this range)
4	Temperature Measuring Range	-20℃ ~ 125℃ (Measuring accuracy guaranteed within this range)
5	Frequency Range	426MHz ~ 442MHz (for reference)
6	Communication Distance	30mm ~ 2000mm

No.	Item	Technical Parameters
7	Temperature Resolution	0.1℃
8	Measuring Accuracy	±2℃
9	Recommended Installation Position	Petal-shaped moving contact fingers of movable circuit breakers
10	Overall Dimensions	25.4mm × 8.7mm × 14.0mm
11	Number of Frequency Points	48 (divided into four bands A/B/C/D, 12 points per band)
12	Service Life	Over 10 years (excluding mechanical damage)
13	Installation Method	Fastened with steel cable ties on petal-shaped moving contact fingers of movable circuit breakers
14	Weight	5g

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