

# **ZS-oil-2 model temperature measuring cable products explain**

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# ZS-oil-2



- 304 skin material
- has an interchangeable inner core
- IP68 is waterproof and dustproof

■ stainless steel food grade armored waterproof temperature measuring cable

## application environment

It is mainly used to measure temperature values above 0.5°C in -50 to 00 °C environment. Suitable for (1) food oil tank body temperature measurement (2) fuel oil tank body temperature measurement (3) energy storage tube temperature measurement (4) brewery fermentation warehouse temperature measurement and other occasions that need waterproof and food grade environment, or multi-point temperature measurement occasions.

Do not use this device in the following environments : (1) scenarios with high impact force (2) scenarios with high tensile strength requirements (3) scenarios with strong electromagnetic interference (4) the device is retained for a long time or exceeds 1000.

## Basic parameter description

1. Outer sheath material: 304 stainless steel.
2. Tensile resistance parameter:  $\geq 0.8t$ .
3. Waterproof: can sink less than 100 meters of water tanks, Wells. It effectively prevents water from entering and damaging cables.
4. Operating environment: Recommended to use in -50°C-120°C, temperature environment.
5. temperature range: -55°C-128°C.

6. temperature accuracy:  $\leq 0.5^{\circ}\text{C}$ .

7. Cable inner core: integral silica gel filling, sealing. Effectively prevent moisture from entering, prevent condensation. The inner core is removable.

8. Temperature measuring core piece: 18B20.

9. Communication mode: 1-wire.

10. Core cable color: BLACK is GND, and other colors are signal cables.

11. Working voltage: 0–5.5V.

## design feature

1. Outer sheath material: use 304 stainless steel skin, can meet the food grade standard.

2. Waterproof treatment: the product is composed of temperature measuring inner core + inner core tube + tensile steel wire + outer sheath. The inner core is treated with integral waterproof silicone. Can effectively prevent the inner core condensation, water seepage, internal corrosion. The technology has been used in hot springs, water storage tanks, tidal power generation, oil tanks, and frozen shafts.

3. Inner core advantages: the whole inner core can be pulled out, easy to replace, the whole inner core waterproof, inner core material resistance  $\geq 125^{\circ}\text{C}$  high temperature. The inner core of the product can be replaced with other kinds of temperature measuring cable.

The products are widely used: the products have the advantages of video grade, waterproof, high temperature resistance, replaceable inner core, etc. This product is stainless steel outer sheath. There are two inner core wires. The bottom head uses argon arc welding to prevent the bottom head,

which is convenient to hang the heavy hammer.

The protection grade is IP68. Each cable has a built-in number, and multiple temperature measuring cables can be used in parallel or series.

## product mix

1. Signal cable and temperature measuring component The temperature measuring component uses 18B20 by default. If you need to customize the thermal resistance and thermocouple temperature measuring, please explain in advance. By default, the signal cable uses 0.3<sup>2</sup>\*2 inner core double-wire system, or 0.3<sup>2</sup>\*3 inner core three-wire system.

2. The sleeve can be pulled and inserted, which is sealed by the whole silica gel, and can prevent moisture from entering the inner core, prevent corrosion and prevent condensation. It can be replaced by pulling and inserting for convenient maintenance.

3. Inner sheath Inner sheath uses high temperature resistant and wear-resistant materials by default. If you need other materials, please customize them in advance.

4. Stainless steel outer sheath Outer sheath made of 304 stainless steel, all through pressure test, can be in contact with any food or grease.

	<b>Zhao-ZS-oil-2</b>	Ordinary thermocouple thermal	Ordinary plastic material measuring temperature and electricity	Ordinary stainless steel package thermometer
Is it in the food grade	yes	Yes (cluster material)	deny	
Number of scalable points	<b>200</b>	<b>1</b>	<b>200</b>	1
Whether there is a waterproof treatment	The inner core is filled with silica gel overall.	yes	deny	one
External food material	<b>304 No rust copper</b>	Poly four gas, stainless steel	plastic cement <b>pvc</b>	stainless steel
Does the line damage affect the temperature	deny	yes	deny	yes

