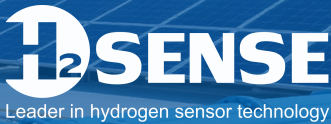


Model 5000C Split-Type Hydrogen Transmitter

Hydrogen



Product Overview

MODEL 5000C Split-Type Hydrogen Transmitter adopts H2SENSE™ Pd alloy thin-film hydrogen sensor based on our company's core process technology. It represents a true hydrogen-specific technology, where hydrogen detection is not affected by combustible gases such as CO and C_xH_y.

The sensor chip of MODEL 5000C is based on a structure of Pd alloy thin-film resistor. It adopts key process technologies, such as a mature and stable Pd alloy material doping system, alloy thin-film preparation process, and specific composite thin-film preparation technology. These technologies give the hydrogen sensor superior long-term stability, allowing it to be free from periodic maintenance

The probe of MODEL5000C split-type hydrogen transmitter achieves miniaturization and quick installation, making it suitable for working conditions with limited installation space. The hydrogen detection probe is electrically connected to the backend signal conditioning circuit via a shielded cable (with a customizable length ranging from 5 to 100 meters). This type of sensor is equipped with a local display function for hydrogen concentration, which is convenient for users.



Product Performance Parameters

Main Indicators		Communication and Output	
Measurement Range (H ₂)	0~ 100%vol	Analog Output	4 ~ 20 mA
Measurement Accuracy(H ₂) (Absolute Error)	±0.3%vol (0~10%vol)	Serial Interface	RS232(Configuration & Diagnosis) , RS485
	±1%vol (10~100%vol)	Communication Protocol	Modbus_RTU
Response Time (T ₉₀)	< 30s	Power Supply	
Probe Size	≤ φ20*50mm	Operating Voltage	24VDC±10%
Detection Limit	50ppm	Current	0.3A (max)
Probe Lead Length	5m	Power Consumption	≤ 2.5W
Gas Medium Temperature	-40 ~ 60		

Functional Features

- Solid-state Pd alloy thin-film technology based on proprietary intellectual property.
- Excellent hydrogen specificity with no cross-sensitivity.
- Good medium compatibility, resistant to various harsh environments and media.
- Split-type structure, compact probe size and suitable for working conditions with limited space.
- Equipped with on-site OLED display.
- Supports Online calibration
- Signal Output: RS485 and 4-20mA
- Cable length between probe and transmitter can be customized according to working conditions.

Product Dimension Drawing

