

Product Overview

MODEL 5200 Online Hydrogen Analyzer adopts Pd alloy thin-film hydrogen detection technology. This technology features absolute hydrogen specificity and no cross-response to other flammable gases. The sensor chip of MODEL 5200 uses a structure of Pd alloy tin-film resistor and adopts key process technologies, such as mature and stable Pd alloy material doping system and alloy thin-film preparation process, specific composite thin-film preparation technology, making MODEL 5200 has superior long-term stability and free from periodic maintenance, reducing operation costs.

MODEL 5200 can be directly used for on-line detection of hydrogen concentration in high- pressure pipelines, without the need for gas venting during measurement. The analyzer has a built-in high-precision pressure sensor, which enables real-time compensation for gas pressure fluctuation and ensures the accuracy of hydrogen detection.

The Pd alloy thin-film hydrogen detection technology is not affected by humidity-even in a water vapor-saturated environment, it will not impact the accuracy of hydrogen detection. Additionally, gas flow rate has no effect on the accuracy of hydrogen detection.



Functional Features

- Does not consume hydrogen, oxygen or other carrier gases are not required.
 - Measure hydrogen concentration ranging from ppm level to 100% pure hydrogen.
 - Equipped with pressure compensation function, with a pressure resistance of up to 3.5 MPa.
 - Insensitive to water vapor and resistant to condensed water.
- Wider applicable range of gas flow rate.
 - Equipped with on-site LCD display.
 - Obtained explosion-proof certification. 
 - Equipped with an infrared remote control.

Product Performance Parameters

Main Indicators		Electrical Characteristics and Others	
Measurement Range (H ₂)	0~ 100%vol	Analog Output	4 ~ 20 mA
Measurement Accuracy(H ₂) (Absolute Error)	±0.3%vol (0~10%vol)	Digital Output	RS485 Modbus_RTU
	±1%vol (10~100%vol)	Power Supply	24VDC±10% , 0.3A (max)
Response Time (H ₂)	< 30s	Relay Load	1A @30V DC、 0.3A @125V AC
Measurement Range (Pressure)	0~3.5MPa	Key Press Mode	Infrared remote control + 4-key operation
Measurement Accuracy (Pressure)	±1% F.S.	Data Recording	Automatic data storage with customizable storage interval; capable of continuously storing 60,000 groups of data with date and time
Relative Humidity	0~100%RH	Gas Path Interface	1/4-inch Ferrule Fitting
Gas Medium Temperature	-40 ~ 60	Explosion-proof Certification	Ex db IIC T6 Gb
Product Dimension Drawing		Ingress Protection	IP67

