Model 5200 Online Hydrogen Analyzer



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. CNEX

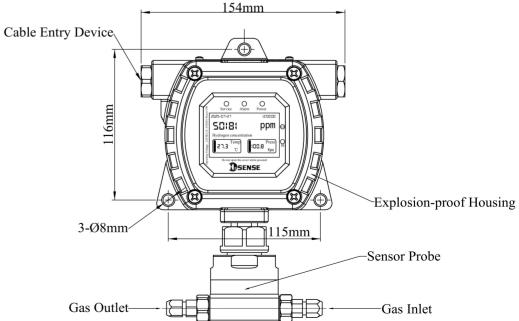
Equipped with an infrared remote control.

Product Performance Parameters

Main Indicators	
Measurement Range (H₂)	0~ 100%vol
Measurement Accuracy(H ₂) (Absolute Error)	±0.3%vol (0~10%vol)
	±1%vol (10~100%vol)
Response Time (H ₂)	< 30s
Measurement Range (Pressure)	0~3.5MPa
Measurement Accuracy (Pressure)	±1% F.S.
Relative Humidity	0~100%RH
Gas Medium Temperature	-40 ~ 60

Electrical Characteristics and Others	
Analog Output	4 ~ 20 mA
Digital Output	RS485 Modbus_RTU
Power Supply	24VDC±10% , 0.3A (max)
Relay Load	1A @30V DC、0.3A @125V AC
Key Press Mode	Infrared remote control + 4-key operation
Data Recording	Automatic data storage with customizable storage interval; capable of continuously storing 60, 000 groups of data with date and time
Gas Path Interface	1/4-inch Ferrule Fitting
Explosion- proof Certification	Ex db IIC T6 Gb
Ingress Protection	IP67

Product Dimension Drawing



15 Hydrogen Sensor Technology Co.,Ltd www.thin-film-sensor.net 15