Hydrogen Sensor H2-5B

- Suitable to hydrogen concentration measurement;
- Measurement precision 0.1%VOL;
- T90 response time ≤10sec;
- Al case, easy mounting;
- Anti-Shock >100g, support HFCV crash test.
- Low power consumption design, easy to connect with Data Acquisition Devices;
- Analog output and RS485 are optional.

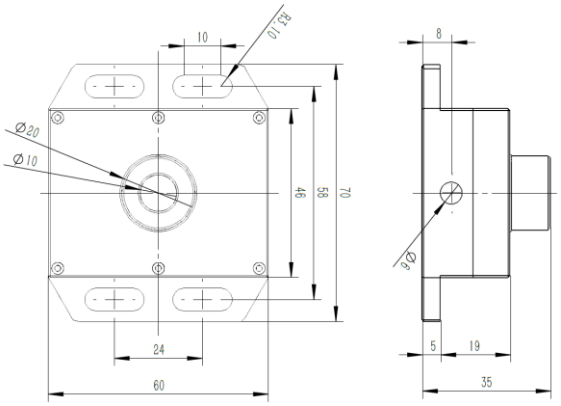
The hydrogen sensor is based on the principle of catalytic combustion to detect the concentration of hydrogen in the air. The front end of the sensor uses a chip prepared by the MEMS micro-hot plate process that meets the vehicle standard, and obtains a stable and reliable signal through temperature compensation and signal filtering and amplification. At the same time, the sensor integrates MCU and 485 bus module, which can not only output analog signals, but also output sensor signals through the bus. Sensors are supplied with high-performance wear-resistant cables, custom lengths, Dallas IDs and connectors.

Specification(with 102 excitation, 25℃):

Name	Unit	Value
Test range	%vol	5
Test error	%vol	≤0.1
Signal output	V	0.5-4.5
Excitation Voltage	V	8-16
Current	mA	60
Resolution	%vol	0.04
T90 response time	sec	≤10
Sampling	Hz	1
Operational Temp.	℃	-10－+80
Anti-Shock	g	≥100
Insulation Res.	MΩ	≥100
Mounting	/	4×M4
Case material	/	POM
Mass	grams	80
Dimension	mm	70×60×35

Note: Sensor Type is Active Sensor with 5V.
The cable length is 8m and no connector with Dallas ID as default;

Dimension:



Wires Define:

Red	Excitation voltage+
Black	Excitation voltage-
White	Signal- or RS485_A
Green	Signal+ or RS485_B
Shield	Connector Case

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