# Specification for FC-H2-5000 Long-life hydrogen sensor




PROSENSE

Shenzhen ProSense Technologies CO.,Ltd.

**Version V 2.0**

## Brief Introduction

The FC-H2-5000 Hydrogen Sensor from ProSense utilizes proven fuel cell technology to deliver accurate, real-time measurement of hydrogen volume concentration. Detection is achieved through a reaction at the working electrode of the micro fuel cell, generating a current directly proportional to the H2 concentration. Designed for battery-powered applications, the FC-H2-5000 offers zero power consumption during gas detection, making it an ideal solution for energy-efficient and safety-critical environments.




## Features

* Zero power consumption
* High precision & sensitivity
* Anti-poisoning by silicone
* Fast response
* Excellent repeatability and stability
* 10 years lifetime
* Working temperature range:-40℃~70℃

## Applications

Electric Vehicle

Energy Storage System

Portable Gas Detector

Hydrogen Gas Station

Fire Protection Industry

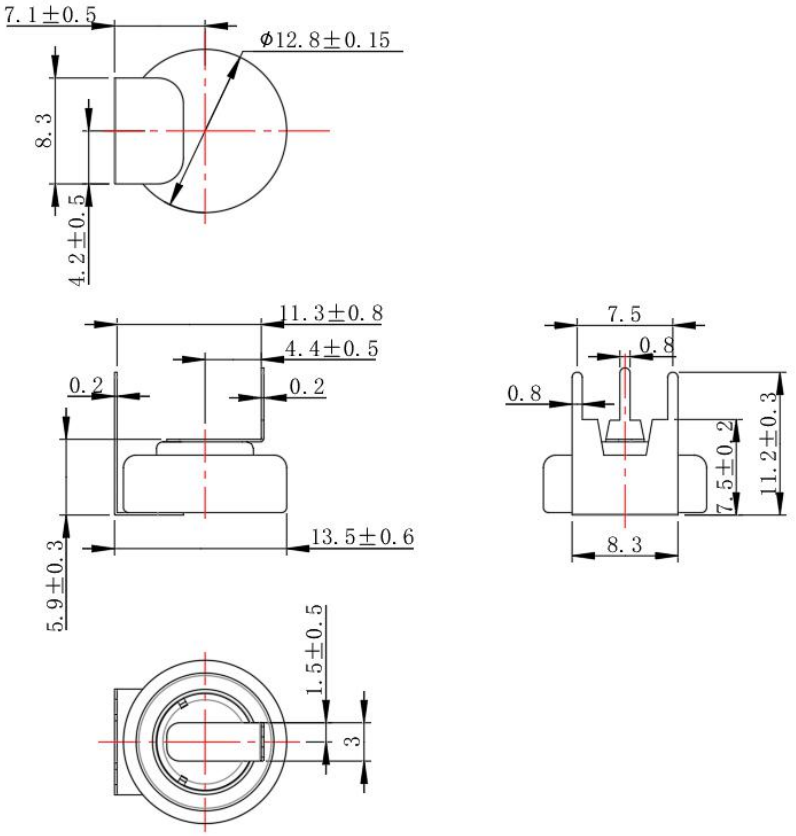
Industry safety

## Technical Specification

| Item | Technical Specification |
|---|---|
| Principle | Micro Fuel Cell |
| Range | 0-5000ppm |
| Max Overload | 10000ppm |
| Sensitivity | 0.7±0.3(nA/ppm) |
| Response Time(T90) | ＜60Sec |
| Precision（25±3℃） | ±3%FS |
| Repeatability | 3% |
| Linearity | linear |
| Temperature | -40℃～70℃ |
| Pressure | 1atm±10％ |
| Humidity | 10％－90％ (non-condense) |
| Lifetime | 10 years in air |
| Warranty Period | 12 months |
| Weight | 3g |
| Output at 1000ppm alcohol | ＜10ppm |

PROSENSE

## Dimensions




Notes： All dimensions in mm

## Precautions

1. The sensor should be prevented from organic solvents or corrosive gases.
2. The sensor should not be stored in dusty, dirty areas and anaerobic environment.
3. The sensor must not be exposed to very high concentration of the analyte permanently.
4. Excessive shock or vibration should be prevented to avoid internal damage.

普 | 晟 | PRO SENSE
**ShenZhen ProSense Technologies Co. Ltd.**
Add： Floor 1, buliding4, LianJian S&T Park, DaLang, LongHua district, ShenZhen,China
Tel： +86-755-36690079 Mobile： 13510916915
Email： sales@szprosense.com Website： http://www.szprosense.com