

## Specification for FC-H2-20000H Long-life hydrogen sensor

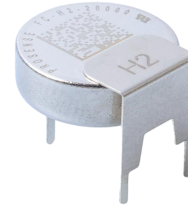


Shenzhen ProSense Technologies CO.,Ltd.

**Version V 2.0**

## Brief Introduction

The FC-H2-20000H 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 H<sub>2</sub> concentration. Designed for battery-powered applications, the FC-H2-20000H 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°C~85°C
- \* UL2075 and ULC588 recognized

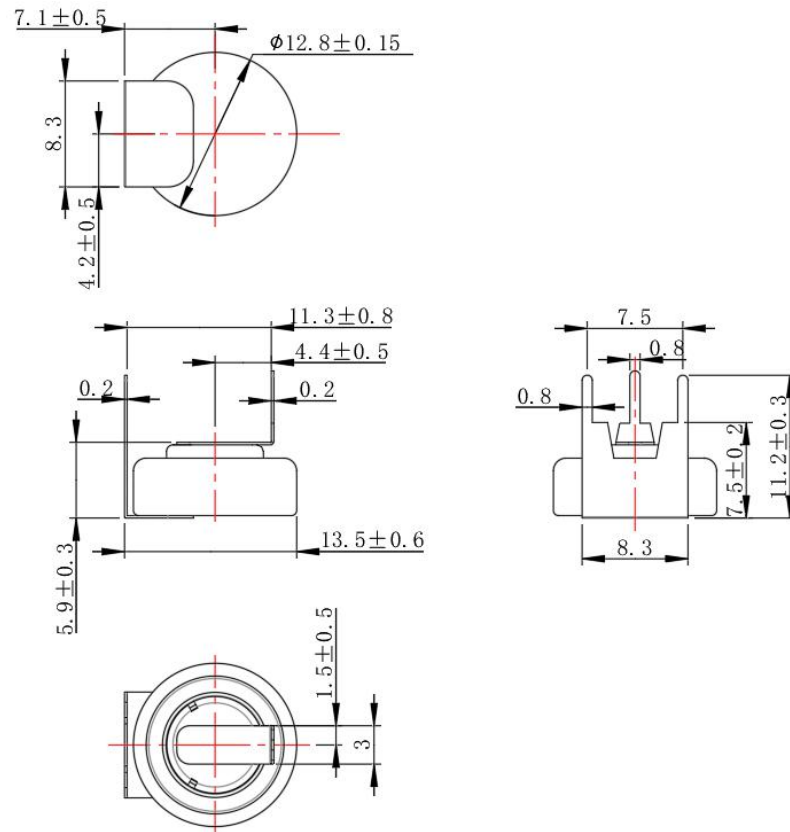
## Applications

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              | 0-20000ppm                |
| Max Overload       | 40000ppm                  |
| Sensitivity        | 0.4±0.2(nA/ppm)           |
| Response Time(T90) | <60Sec                    |
| Precision (25°C)   | ±4%F.S.                   |
| Repeatability      | 3%                        |
| Linearity          | linear                    |
| Temperature        | -40°C~85°C                |
| Pressure           | 1atm±10%                  |
| Humidity           | 10%—90%<br>(non-condense) |
| Lifetime           | 10 years in air           |
| Warranty Period    | 12 months                 |
| Weight             | 3g                        |

## 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.



ShenZhen ProSense Technologies Co. Ltd.

Add: Floor 1, buliding4, LianJian S&T Park, DaLang, LongHua district, ShenZhen, Chian

Tel: +86-755-36690079

Mobile: 13510916915

Email: sales@szprosense.com

Website: <http://www.szprosense.com>