

Brief Introduction

FC-H2-100 H2 sensor from ProSense works on the proven fuel cell technology and responds directly to the volume concentration of H2. FC-H2-100 realizes the detection of H2 by the reaction occurred on the working electrode of the micro fuel cell, during which the current generated is proportional to the concentration of H2. FC-H2-100 is perfect for application powered by battery because fuel cell realizes gas detection without power consumption.



Feature

- *0 power consumption
- *High precision
- *High sensitivity
- *High performance/cost ratio
- *Wide linear range
- *Fast response
- *Excellent repeatability and stability
- *Long service life

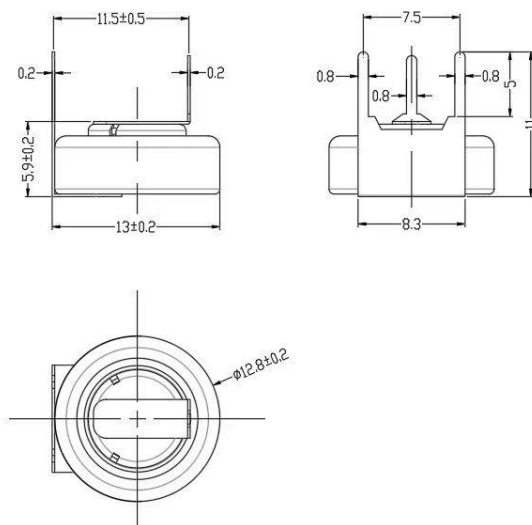
Application

Electric Vehicle
 Energy storage industry
 Smart home
 Fire protection industry
 Portable Device
 Environmental protection
 Industry safety

Technical Specification

Item	Technical Specification
Principle	Micro Fuel Cell
Range	0-100ppm
Max Overload	200ppm
Sensitivity	5±1.5(nA/ppm)
Response Time(T90)	<90Sec
Precision (25°C)	±3%F.S.
Repeatability	3%
Linearity	linear
Temperature	-40°C~70°C
Pressure	1atm±10%
Humidity	10%—90% (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



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