Product Data Sheet

FC4-H2-1000 Electrochemical H2 Sensor

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Key Features & Benefits

- *0 Power Consumption
- *High Precision
- * High sensitivity
- *Wide Linear Range
- *Excellent Repeatability and Stability

Applications

Energy, Electric Power, Petrochemical, Environmental Protection, Mining, Agriculture, Smart Home, etc.

Technical Specification

MEASUREMENT

Principle Micro fuel cell

Range 0-1000ppm

Maximum Overload 2000ppm

 Sensitivity
 0. 4±0.2 (nA/ppm)

 Response Time (T90)
 <60seconds</td>

 Baseline Offset (20°C)
 ±10ppm

 Zero Drift (-20°C-40°C)
 ±20ppm

 Repeatability
 2% of signal

 Output Signal
 Linear

Long Term Output Drift <3% signal/year

ENVIRONMENTAL

Working Temperature Range $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Working Pressure Range $90 \sim 110 \text{ kPa}$

Working Humidity Range 10% - 90% (not condensing)

LIFETIME

Expected Operating Life 5 years in air
Warranty 24 months

PHYSICAL CHARACTERISTICS

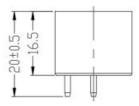
Weight 7g
Orientation Sensitivity None

Product Dimension

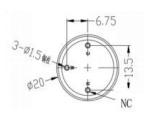
Α



В



C



Notes: 1 All dimensions in mm

2 All tolerances ±0.15mm
unless otherwise stated.

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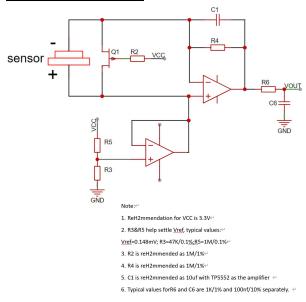
Cross-Sensitivity Data

Notes: 1. All performance data is based on condition at 20°C, 50%RH & 1013mbar.For sensor performance data under other conditions, please contact us.

2. Connection should be made via PCB sockets only. Soldering to the pins will seriously damage the sensor

Gas	Concentration Used (ppm)	FC4-H2-1000 (ppm H2)
СО	100	40

Recommend Circuit



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 permanantly
- 4 .Excessive shock or vibration should be prevented to avoid internal damage
- 5. The pins should not be broken or bent



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