FC1-H2S-100 Electrochemical H2S Sensor



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 0-100ppm
Maximum Overload 200ppm

 Sensitivity
 60±20(nA/ppm)

 Response Time (T90)
 <30seconds</td>

 Baseline Offset (20°C)
 ±2ppm

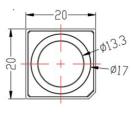
 Zero Drift (-20°C-40°C)
 <5ppm</td>

Repeatability 2% of signal
Output Signal Linear

Long Term Output Drift <3% signal/year

Product Dimension

Α

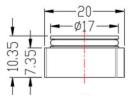


В

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)



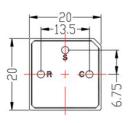
LIFETIME

Expected Operating Life 5 years in air **Warranty** 24months

PHYSICAL CHARACTERISTICS

Weight 6g
Orientation Sensitivity None

C



Notes: 1 All dimensions in mm

2 All tolerances ±0.15mm
unless otherwise stated.

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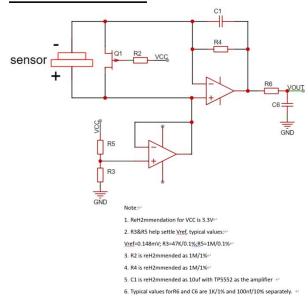
Cross-Sensitivity Data

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

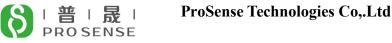
Gas	Concentration Used (ppm)	FC1-H2S-100 (ppm H2S)
H2	100	2
СО	100	4

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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