



# **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**

PrincipleMicro fuel cellRange0-20000ppmMaximum Overload40000ppm

Sensitivity 0. 3±0.1 (nA/ppm)

Response Time (T90) <60seconds

Baseline Offset (20°C) ±50ppm

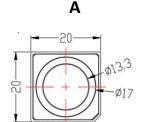
Zero Drift (-20°C-40°C) ±100ppm

Repeatability 2% of signal

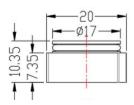
Output Signal Linear

**Long Term Output Drift** <3% signal/year

# **Product Dimension**



В



# **ENVIRONMENTAL**

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

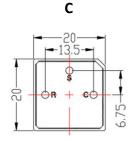
Working Humidity Range 10% - 90% (not condensing)

#### LIFETIME

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

#### PHYSICAL CHARACTERISTICS

Weight 6g
Orientation Sensitivity None



Notes: 1 All dimensions in mm

2 All tolerances ±0.15mm
unless otherwise stated.

# FC1-H2-20000 Electrochemical H2 Sensor

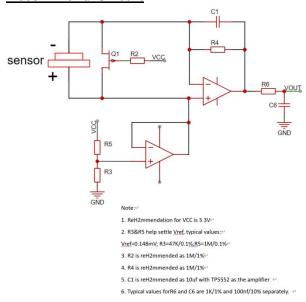
### **Cross-Sensitivity Data**

**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-H2-20000 (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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