

P7GW-40000 Hydrogen Sensor

Key Features & Benefits

- * Fast: T₉₀ < 30seconds
- * Accurate: High accuracy in 0~4% H₂
- * Reliable: Drift of sensitivity < 0.5%/month
- * Durable: Long service life of over 5 years
- * Intelligent: Free from environmental influence

Applications

Energy, Electric Power, Petrochemical, Mining, etc.

Technical Specification
MEASUREMENT

| | |
|---------------------------------------|------------------------------|
| Principle | 3-electrodes electrochemical |
| Model | P7GW-40000 |
| Gas measured | Hydrogen |
| Detection Range (ppm) | 0~40000 |
| Sensitivity (nA/ppm) | 1 ± 0.2 |
| Overload (ppm) | 50000 |
| Resolution (ppm) | 100 |
| Response Time (T₉₀) | < 30seconds |
| Baseline Offset (20°C/ppm) | -100 ~ 50 |
| Zero Drift (-20°C-40°C/ppm) | < 150 |
| Repeatability | 2% of signal |
| Output Signal | Linear |
| Long Term Output Drift | < 0.5% signal/month |

ENVIRONMENTAL

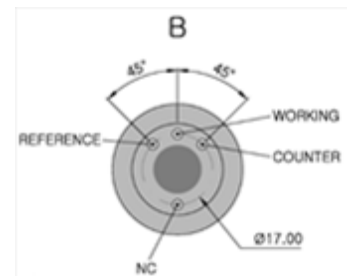
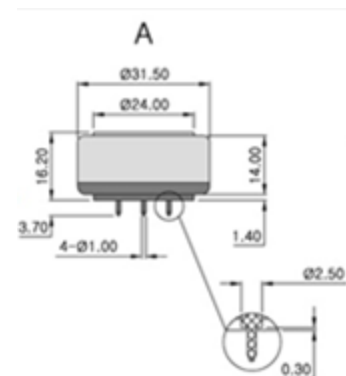
| | |
|----------------------------------|------------------------|
| Working Temperature Range | -40 ~ 60°C |
| Storage Temperature Range | -20 ~ 40°C |
| Operating Humidity Range | 5 ~ 95% (non-condense) |
| Operating Pressure Range | 50 ~ 150 (kPa) |

LIFETIME

| | |
|---------------------|----------|
| Service Life | > 5years |
| Storage Life | 5years |

PHYSICAL CHARACTERISTICS

| | |
|---------------|-----|
| Weight | 14g |
|---------------|-----|

Product Dimension


- Notes: 1 All dimensions in mm
 2 All tolerances ±0.15mm unless otherwise stated.

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Cross-Sensitivity Data

Notes:

- 1 The cross-sensitivity data is collected from a certain number of gases
- 2 It is intended to indicate sensor response to other gases except target gas
- 3 The data may change from batch to batch and may behave differently according to the test environment
- 4 Connection should be made via PCB sockets only. Soldering to the pins will seriously damage the sensor

| Gas | Concentration Used /ppm | Hydrogen Concentration/ppm |
|------|-------------------------|----------------------------|
| CO | 500 | 75 |
| C2H4 | 100 | 5 |
| H2S | 50 | 0 |
| SO2 | 50 | 0 |
| NO2 | 50 | 0 |

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 Excessive shock or vibration should be prevented to avoid internal damage
- 4 The pins should not be broken or bent
- 5 The working and reference electrodes should be in short-circuit condition in storage
- 6 All performance data is based on condition at 20°C, 50%RH & 1013mbar. For sensor performance data under other conditions, please contact us.

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