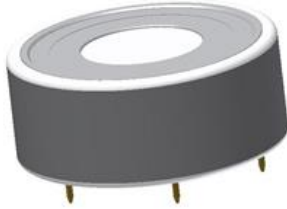


P3GW-40000 Hydrogen Sensor

Applications

Energy, Electric Power, Petrochemical, Mining, etc.

Technical Specification
MEASUREMENT

Principle	3-electrodes electrochemical
Model	P3GW-40000
Gas measured	Hydrogen
Detection Range	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

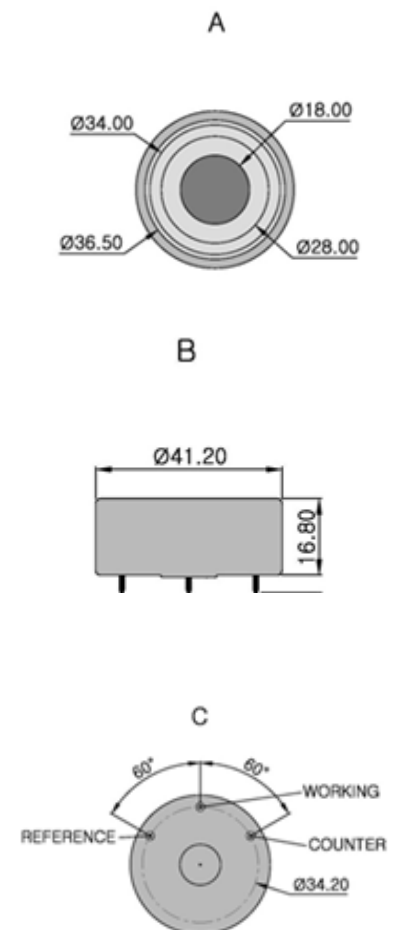
Service Life	>5years
Storage Life	5years

PHYSICAL CHARACTERISTICS

Weight	16g
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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

Product Dimension


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

P3GW-40000 Hydrogen Sensor

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.