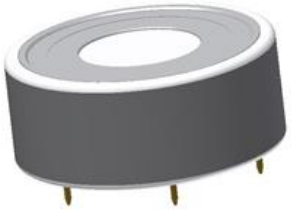
P3GW-20% Hydrogen Sensor



Key Features & Benefits

* Fast：T90 ＜30seconds
*Accurate:High accuracy in 0~20% H2
* Reliable：Drift of sensitivity＜0.5%/month
*Durable：Long service life of over 5 years
*Intelligent:Free from environmental influence
*Robust: Can be applied in environment where pressure can be changed from 7MPa to absolute vacuum

Applications: Energy，Electric Power，Petrochemical， Mining, etc.

Technical Specification

MEASUREMENT

Principle	3-electrodes electrochemical
Model	P3GW-20%
Gas measured	Hydrogen
Detection Range	0~20%
Sensitivity（nA/ppm）	0.5±0.2
Overload	30%
Resolution（ppm）	200
Response Time (T_{90})	＜30seconds
Baseline Offset（20℃）	-200 ~ 200
Zero Drift（-20℃-40℃）	<250
Repeatability	2% of signal
Output Signal	Linear
Long Term Output Drift	＜0.5% signal/month

ENVIRONMENTAL

Working Temperature Range	-40 ~ 60℃
Storage Temperature Range	-20 ~ 40℃
Operating Humidity Range	5 ~ 95% （non-condense）

LIFETIME

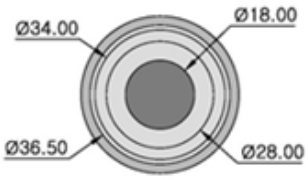
Service Life	>5years
Storage Life	5years

PHYSICAL CHARACTERISTICS

Weight	21g

Product Dimension

A



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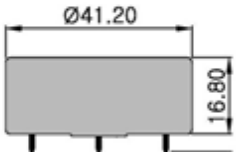

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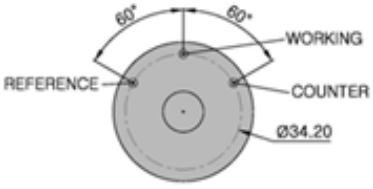

Notes：1 All dimensions in mm
2 All tolerances ±0.15mm unless otherwise stated.

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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℃, 50%RH & 1013mbar. For sensor performance data under other conditions, please contact us.

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