

# **DG6001 Dissolved Gas Sensor for Isolating Oil**

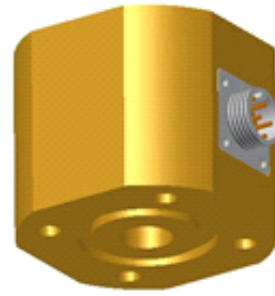
## **Operation Manual**



**ProSense Technologies Co., Ltd.**

## Brief Introduction

ProGuard Sensor for dissolved gas, based on fuel cell technology, relied on numerous patented technologies, combined with years of field experience, is specialized in the detection and monitoring of hydrogen dissolved in the transformer oil and ensures the safe operation of transformer, shunt reactor, bushing, etc...



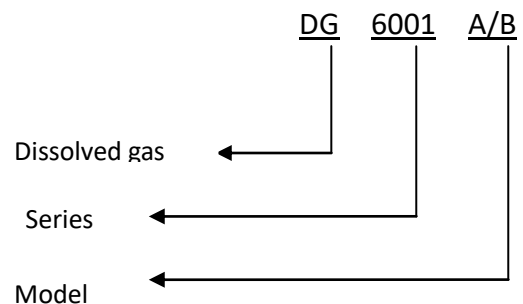
## Key Features

- Industrial gas sensor with multiple patents applied
- Gas separation and detection integrated
- Vacuum withstand
- Can be mounted directly on transformer valve
- Free from poisoning, electrolyte leakage
- Precise control of internal environment, free from environmental influence
- Purpose-designed for hydrogen detection in harsh environment
- Non- wearable and consumable, maintenance free
- High stability, fast response, wide detection range
- Long service life of over 10 years

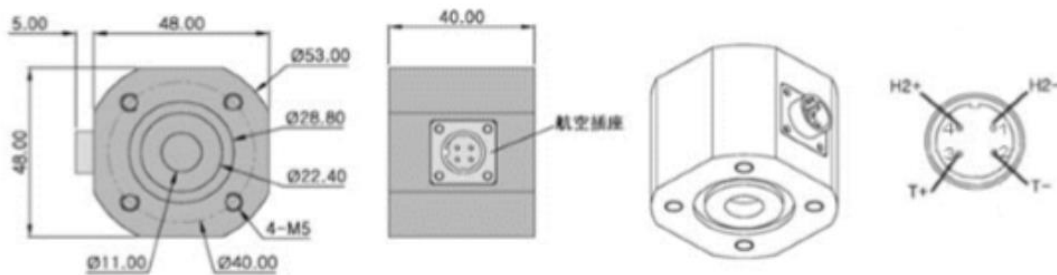
## Typical Applications

- Energy
- Electric Power
- Petrochemical
- Mining
- Others
- ... ..

## Naming Rules



## Diagram



All dimensions in mm

All tolerances  $\pm 0.15$ mm unless otherwise stated

## Technical Specification

Items	Technical Specification	
	DG6001A	DG6001B
Principle	Micro Fuel Cell	
Model	DG6001A/B	
Detection Gas	Composite concentration of H <sub>2</sub> , CO, C <sub>2</sub> H <sub>4</sub> and C <sub>2</sub> H <sub>2</sub>	H <sub>2</sub>
Relative Sensitivity	-H <sub>2</sub> -CO -C <sub>2</sub> H <sub>4</sub> -C <sub>2</sub> H <sub>2</sub>	100% 10~20% 5~10% 2~5% } <1%
Detection Range (μL/L)	0~2000	
Overload (μL/L)	5000	
Resolution (μL/L)	1	
Accuracy	±10% or ±20ppm whichever is greater	
Response Time (T80)	<10min	
Long-term Sensitivity Drift	2% /year	
Output Signal	linear	
Repeatability	1% of signal	
Operating Temperature Range (°C)	-40 ~ 80	
Storage Temperature Range (°C)	-20 ~ 60	
Operating Humidity Range	5 ~ 95% (non-condense)	
Pressure at the probe	Absolute vacuum to 700kPa	
Service Life	>10years	
Storage Life	5years	



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