

DG6001+ Dissolved H2 Module for Isolating Oil

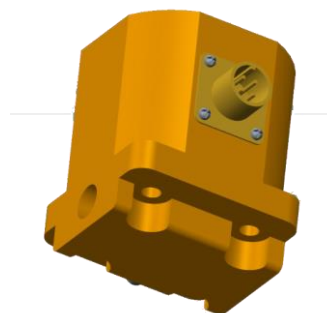
Operation Manual



ProSense Technologies Co., Ltd.

Brief Introduction

DG6001+ dissolved H₂ module, works as the core part of dissolved gas analyzer of Photoacoustic spectroscopy, 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...



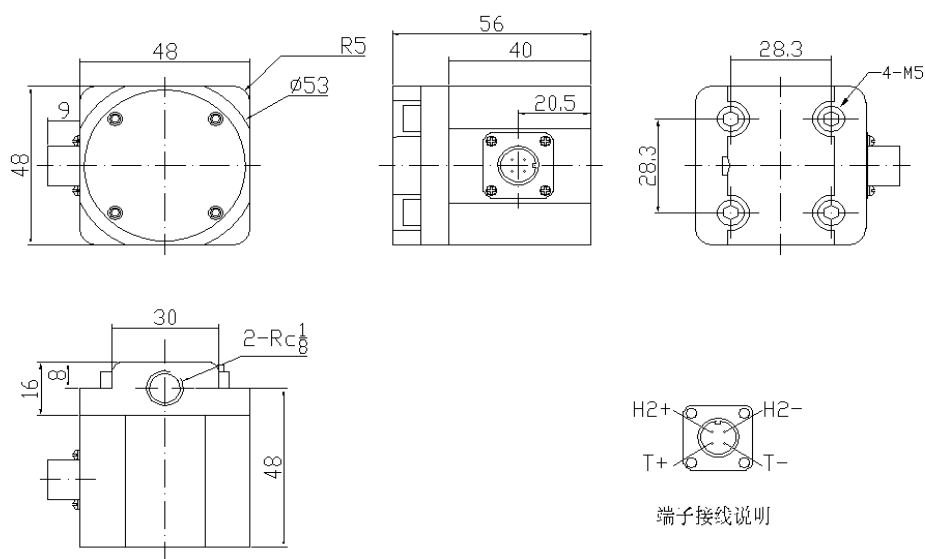
Key Features

- Industrial gas sensor with multiple patents applied
- Gas separation and detection integrated
- Vacuum withstand
- Can be applied in oil phase directly
- 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**
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Diagram



Note: All dimensions in mm; All tolerances $\pm 0.15\text{mm}$ unless otherwise stated

Technical Specification

Items	Technical Specification
Principle	Micro Fuel Cell
Model	DG6001B
Detection Gas	H ₂
Volume of Oil Chamber(ml)	1
Detection Range (μL/L)	0~5000 (dissolved in oil)
Overload (μL/L)	10000 (dissolved in oil)
Resolution (μL/L)	1
Accuracy	$\pm 10\%$ or $\pm 20\text{ppm}$ whichever is greater
Response Time (T ₈₀)	<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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