

# TRANSFORMER MONITORING

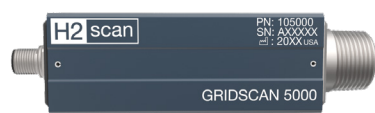
## CONTINUOUS HYDROGEN MONITORING SOLUTIONS

### H2scan Hydrogen Transformer Monitors

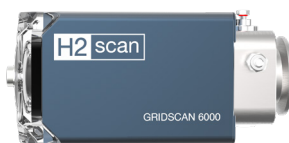
H2scan's hydrogen specific smart sensors are ideal for real-time, continuous, key gas measurements that can enhance asset reliability, increase plant uptime, reduce maintenance costs, and help maintain industry compliance.

#### Advantages

- Real-time, continuous hydrogen measurement
- Self-calibration
- No cross-sensitivity to other combustible gases
- High reliability, low life cycle cost
- Modbus and DNP3 communications



General Purpose H<sub>2</sub> (5000)  
High H<sub>2</sub> (5015)  
H<sub>2</sub> and Temperature



H<sub>2</sub>, Moisture, Pressure and  
Temperature

Model	GRIDSCAN® 5000 Series	GRIDSCAN 6000
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Model	H <sub>2</sub> Measurement Range	Accuracy	Repeatability	Operating Temperature (Ambient)	Sensor Temperature Range
5000, 5010	Oil Phase: 25 - 5,000 ppm Gas Phase: 25 - 5,000 ppm in-oil equivalent	20%	10%	-40°C to 70°C (-40°F to 158°F)	Oil Phase: -40°C to 105°C (-40°F to 221°F) Gas Phase: -40°C to 80°C (-40°F to 176°F)
5000 HP	Oil Phase: 25 - 5,000 ppm Gas Phase: 25 - 5,000 ppm in-oil equivalent	10%	10%	-40°C to 70°C (-40°F to 158°F)	Oil Phase: -40°C to 105°C (-40°F to 221°F)
5015	Gas Phase: 250 - 50,000 ppm	20%	10%	-20°C to 70°C (-4°F to 158°F)	Gas Phase: -40°C to 80°C (-40°F to 176°F)
6000	Oil Phase: 25 - 5,000 ppm	20%	10%	-40°C to 70°C (-40°F to 158°F)	Oil Phase: -40°C to 125°C (-40°F to 257°F)

### Hydrogen Sensor Accessories



#### HYVIEW® Modbus Display

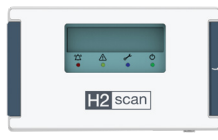
Displays H<sub>2</sub> in percent or ppm locally for instant indication



#### GSAO-1

Modbus to 4-20 mA

Converts GRIDSCAN Modbus signal to analog output



#### GSAO-2

I/O Control Hub

Local display with analog I/O, alarm relays and communications



#### Sentinel™ PRO

IoT Monitor

Wireless Communication hub for GRIDSCAN sensors with optional embedded LV Power Quality Measurement



#### H2cloud™

Fleet Monitoring Platform

Cloud-based platform for real-time access to transformer fleet and PQ data with secure data archiving