

Model 3000 Hydrogen DGA Online Monitor for Transformer

The H2SENSE Model 3000 offers a breakthrough price / performance ratio in online DGA for distribution and other power transformers in the grid.

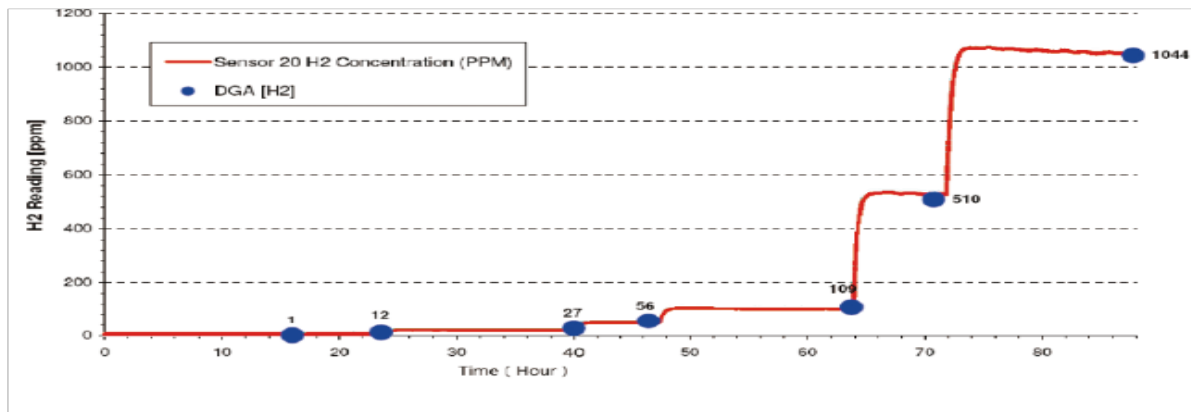
Hydrogen gas buildup in transformer oil is an early indicator of incipient transformer faults. Now for the first time, the benefits of online condition monitoring can be realized across the distribution transformer fleet to save the routine inspection work by person.

The H2SENSE Model 3000 can continuously monitor hydrogen at PPM Levels in oil and can be programmed to alarm based on different PPM Level, warning operators of potentially disruptive transformer faults and pending failures.



Advantages:

✓ No Membrane	✓ Compact, light weight design
✓ No Sensor Replacement	✓ Installed directly on drain valve
✓ No Consumables or Gases	✓ Network communications
✓ No Scheduled Maintenance	✓ Long life time



H2SENSE Model 3000 Technical Data Sheet

Measurement Range (H2-oil phase)	25 ~ 5000 ppm
Accuracy (H₂)	20% of reading or 25 ppm
Response Time	< 60 minutes (50% of step change)
Operating Temperature (Ambient)	-40 ~ 55 °C
Operating Temperature (Oil)	-40 ~ 85 °C
Oil Temperature Measurement Range	-20 ~ 105 °C
Operating Humidity	0 ~ 95% RH
Data Storage	5 years (30 minutes per data input)
Cross-sensitivity to Other Gases	CO、CO ₂ 、C ₂ H ₂ 、CH ₄ <2%
Relays	Three relays in Hydrogen monitoring configuration: two user configurable, one is for self test. 30VDC / 1A, 125 VAC / 0.3A.
Analog Output	One way output, 4-20 mA, max. load 600Ω
Serial Output and Protocol	RS232 (Serial), RS485 (MODBUS_RTU)
Visual alarm indicator	3 LEDs in different colors
Expected life	10 years
Installation	The monitor comes with 3/4" MNPT fitting.
Weight, Dimensions	2 kgs, 160 mm (L) x 120 mm (W) x 257.5 mm (H)
Power Input	24 VDC / 1.5A
Warranty	1 year standard warranty with extension options
Protection Level	IP66
Monitoring & configuration software	Included without additional charge
Standards	CE

Specifications subject to change without prior notice.

Besides our standard Model 3000 product, Qintec can also provide customized solutions for online hydrogen DGA for other oil immersed power equipments, such as bushing, CT & PT.