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THM3000 Hydrogen and Temperature online Monitor system for Transformer

THM3000 offers a breakthrough price/performance ratio in online DGA (Dissolved Gas Analysis) for distribution and other power transformers in the grid.

For the first time, the benefits of online condition monitoring can be realized across the distribution transformer fleet. Hydrogen gas buildup in transformer oil is an early indicator of incipient transformer faults. THM3000 continuously monitors hydrogen PPM Levels and can be programmed to alarm based on PPM Levels, warning operators of potentially disruptive transformer faults and pending failures.

It can use GPRS or WIFI to transmit data to management platform!

Advantages

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

THM3000 Technical Specification

Measurement range	25ppm~5000ppm
Accuracy (H2)	20% of reading or 25ppm
Repeatability (H2)	10% of reading or 15ppm
Response Time	<60 minutes(50% of step change)
Operating Temperature(Ambient)	-40~55℃
Storage Temperature	-40~85℃
Oil Temperature Measurement Range	-20~100℃
Operating Humidity	0 ~100% RH
Data Storage	One year one hour testing intervals
Cross-sensitivity to Other Gases	CO、CO2、C2H2、CH4<2%
Relays	Three relays in Hydrogen monitoring configuration: two user configurable, one is for self test: 240 VAC/3A
Analog output	4-20mA
Serial Output and Protocol	RS232, RS485, MODBUS
Visual alarm indicator	Color changing LED in Hydrogen monitoring configuration
Expected life	10 years
Installation	The monitor comes with 3/4" MNPT fitting. The optional moisture sensor comes with 1/2"MNPT fitting
Weight, Dimensions	1.3kg, 15.88cm(L)×11.75cm(W) ×7.94cm(H)
Power	110 VAC – 240VAC
Warranty	3 years
Standards	EMI/EMC:IEEE STD C37.90.1, EN 55022/FCC PART 15&EN 55024/EN 610004, IEC60068-2-6, IP67*(IEC 60529), NEMA 6; CE Mark (IEC 61000)