

Utility-grade DGA technology for mission-critical transformers

A **nine-gas monitor** samples and measures all gases needed for a full DGA and provides information on specific sub-faults. Elevated levels of **carbon monoxide** and **carbon dioxide** are good indicators of cellulose degradation. High levels of **oxygen** can accelerate the oxidation and decomposition of paper insulation. This monitor imparts a full DGA profile of the gases inside the transformer at a high frequency, offering more data for trend analysis.

Leverage five decades of reliability expertise

With more than 50 years of transformer management experience, we focus on keeping your transformer running so you can focus on what you do best—maintaining and improving your entire operation.

From help selecting the monitor that best fits your needs, to setting alarm parameters appropriate for each transformer, through close monitoring of those levels to keep your equipment running, day in, day out...we've got this.

Avoid costly false alarms

We know that every transformer is unique. Our engineers use an alarm philosophy that accounts for the transformer's manufacturer, model, history, application, and age. We set alarm parameters so that we alert you only when there's an issue that needs your attention. No more, no less.

Proven monitoring technology.

Easy-to-use web-based software.

A legacy of wisdom.

Your entire operation depends on the reliability of your transformer. When Dissolved Gas Analysis (DGA) results indicate a fault, you need expert support right away.

Guardian Monitoring[®] from SDMyers combines the latest in single- and multi-gas monitoring technology with proactive diagnostic expertise from 50+ years of transformer management experience.



- **FULL DGA MONITORING FOR DEEP INSIGHT INTO YOUR TRANSFORMER'S HEALTH**
- **MODULAR DESIGN ALLOWS FOR FUTURE UPGRADES AND COMPONENT MAINTENANCE**
- **NO CONSUMABLES SUCH AS CALIBRATION OR CARRIER GASES**
- **MARKET-LEADING PHOTOACOUSTIC SPECTROSCOPY TECHNOLOGY IN TERMS OF ACCURACY AND DURABILITY**
- **CELLULAR COMMUNICATION THAT IS SECURE, DEPENDABLE, AND RELIABLE**
- **INSTANT CONNECTIVITY TO TRANSFORMER DASHBOARD[®] AND OTHER MANAGEMENT SOFTWARE**



Our three monitors compared

	G1	G5	G9
GENERAL			
Gases detected	1	1-5	1-9
Technology	NiPd ^(a)	NDIR ^(b)	PAS ^(c)
Accuracy	±20%	±5-10%	±5%
Maintenance-free operation	✓	✓	✓
Modular/expandable	✗	✓	✓
Multi-transformer capable	✗	✓	✓
Price	\$\$	\$\$\$	\$\$\$\$
DGA AND DIAGNOSTICS			
Use DGA diagnostic analytical tools	✗	✓	✓
Detects critical faults	✓	✓	✓
Detects specific faults	✗	✓	✓
Detects sub-faults	✗	✗	✓
Detects degradation of cellulose insulation	✗	✓	✓
Prevents false alarms	✓	✓	✓
DASHBOARD CONNECTIVITY			
Transformer Dashboard® compatible	✓	✓	✓

* 1-Hydrogen 2-Methane 3-Ethylene 4-Acetylene 5-Carbon monoxide 6-Ethane 7-Carbon dioxide 8-Oxygen 9-Nitrogen
 (a)—NiPd=Solid State Nickel Palladium (b)—NDIR=Non-dispersive Infrared (c)—PAS=Photoacoustic Spectroscopy



WE CAN HELP YOU DETERMINE THE CRITICALITY OF YOUR EQUIPMENT AND MAKE RECOMMENDATIONS ON WHICH SOLUTION IS THE BEST FIT FOR YOUR TRANSFORMER FLEET.

SDMyers and Camlin

An Electric Power Reliability Partnership

For a detailed comparison of the G1, G5, and G9 monitors we offer as part of the **Guardian Monitoring Service**, and for information on the analytic capabilities of these technologies, download the whitepaper from sdmyers.com/knowledge-vault