

MS MORGAN
SCHAFFER

ACCURACY
BY DESIGN

Calisto
complete DGA - moisture

support: + 001.514.739.1

Calisto

Calisto Online DGA Monitors
for Power Transformers and
Other Oil-Filled Electrical Assets

MS MORGAN
SCHAFFER
A DOBLE COMPANY

doble

Accuracy Matters

Calisto online DGA monitors provide the data you need to make informed decisions:



Early detection
of impending
failures



Cost-efficient,
condition-based
maintenance

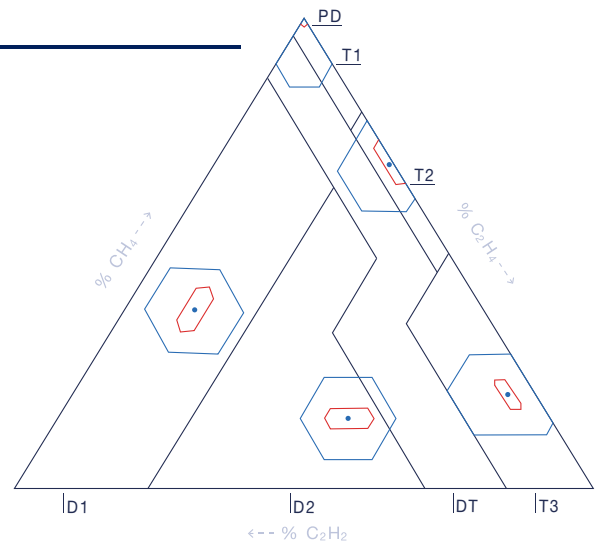


Optimal loading
decisions

Accurate DGA data enables transformer diagnostics.

When an area of uncertainty crosses several fault zones, reliable diagnosis is not possible:
fault severity is unclear.

Red $\pm 15\%$
Blue $\pm 30\%$



Trending just isn't enough!

When monitor and lab data agree, condition assessment can be made with confidence.

**Fact: DGA is the single most important tool
for diagnosing transformer health.**

**You would not accept offsets or drift from any other
measurement tools.**

Why should DGA monitors be any different?

Up-Time Matters

Calisto Detection Monitors: Calisto and Calisto 2



Hydrogen
+ moisture



Hydrogen, moisture
+ carbon monoxide

Calisto Diagnostic Monitors: Calisto 5 and Calisto 9



5 fault gases
+ moisture



Complete DGA
+ moisture

Calisto monitors offer long-term reliability

- Self-calibrating
- Fully functional even in the harshest environments
- Field-proven, industrial-grade electronics
- 5kV surge isolation on all network connections
- 250 ms power interruption protection
- Best-in-industry EMC and safety ratings
- Worldwide technical service and support
- 24-hour response time

Low, Predictable Total Cost of Ownership Also Matters

15+
years

Expected useful
operating life



Virtually maintenance-free:
annual visual inspection

30✓
months

Standard warranty on all
Calisto products



- Minimize false alarms
- Enable condition-based maintenance



Easy interchangeability between
detection and diagnostic units for
optimal fleet deployment strategies

**We did it first.
We still do it best.**

**More than 50 years
of DGA expertise.**



Calisto Manager software

Calisto Manager is the interface software used by all Calistos to:

- Configure monitor settings and alarm levels
- Display monitor status
- Download historical data
- Perform monitor upgrades
- Provide simple SCADA functionality



Inside View insulating oil diagnostic software

Inside View, the most comprehensive DGA and dielectric oil diagnostic software on the market, integrates data from any brand of online monitor or portable analyzer and oil testing lab.



- _____ Centralize data for fast and easy accessibility
- _____ Perform accurate oil test data interpretation
- _____ Deploy a configurable health index
- _____ Receive only necessary alerts

Sound decisions require sound data.



Accuracy in everything we do.

**Morgan Schaffer's commitment is not limited to our equipment.
We also ensure excellence in all of our activities:**

- On-time delivery
- Superior technical support
- Responsiveness and customer service
- Repair services
- Quality assurance across the board

**For more information about Calisto online DGA monitors
or to request a demo unit, please contact us at:**

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Accreditations

Morgan Schaffer is ISO 9001:2008 certified. Morgan Schaffer laboratory is ISO/IEC 17025:2005 accredited by the ANSI-ASQ National Accreditation Board for the tests listed on its scope of accreditation. Morgan Schaffer is also ISO Guide 34:2009 accredited by the ANSI-ASQ National Accreditation Board for the production of reference materials listed on its scope of accreditation.

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