

Going Extra Mile - Transformer Solutions beyond DGA



Intellix BMT 300

A bushing monitoring and partial discharge system
Monitors capacitance developed on bushing with time
In addition the presence of Partial Discharge (PD) activity in the main tank
Prevents arching on transformer bushings.



Intellix MO 150

Dynamic and Intelligent Transformer Monitoring System.
Indicate winding hotspots.
Built in cooling system.
Complete, comprehensive solution.
Alarms set at pre-defined levels.
Collect real-time data from sensors.



Blazing Fast On-Site DGA results in 30 min.

No longer wait months to get a piece of paper that too not reliable!

E PESOL offers for the first time in Pakistan on-site DGA facility through its state-of-the-art on-site DGA test-set, Transport X. The TRANSPORT X is a compact, portable DGA system which is designed to analyze oil samples in the field and obtain not only gas level readings but also deliver diagnostics based on standard rules. The TRANSPORT X unit has been designed to be very rugged and user friendly with an emphasis placed on easy field operation. EPESOL infamous Field Services team had an excellent record of providing these blazing fast services both in Pakistan and abroad.

Why Transport-X on-site DGA:

On-site analysis increases speed and decreases cost at which results can be obtained:

Avoids time consuming process of documenting, packaging and shipping samples to a laboratory
DGA at a commercial lab in the US or Europe costs approximately \$200 each

The customer can test the sample in the time it would take to package the sample and ship it.

The sample can be tested immediately, on-site, thus reducing the possibility of loss of gas or loss of sample integrity during the delay involved in transporting the sample to a lab

Requires no consumables (columns, carrier or calibration gases) and requires minimal training making the cost per test lower than for any other portable DGA product on the market

The definitive FAST FIRST RESPONSE TOOL, providing full DGA results in less than 30 mins. No other technique can match this time in an emergency situation.

FAQs:

I have Buchholz, then why should I?

Buchholz trips after generation of significant amount of gases which means after failure.

The failure rate is quite low, then why should I care this much?

A single catastrophe can prove fatal resulting in injuries, wide spread damage of image & assets and unplanned outages.

I can wait for months, why not manual sampling?

A failure can occur within few days or even hours.

When and how will I get paybacks?

It depends on how you apply EPESOL's M&D solution and how you maintain your assets. For customized solution contact EPESOL



Partner
GE Energy



Get in Touch!

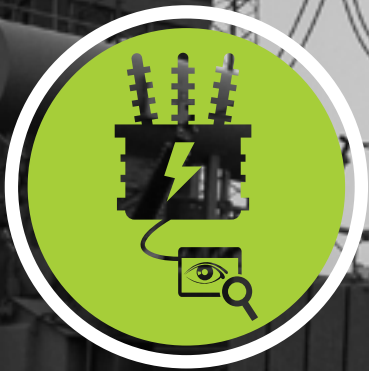
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M&D

Advanced Assets Management

M O N I T O R I N G A N D D I A G N O S T I C S

by EPESOL



EPESOL Pvt. Ltd.



E PESOL is the pioneer of introducing Monitoring & Diagnostic equipment for the first time in Pakistan. M&D is the backbone of transformers' life management strategy and thus EPESOL is providing a wide range of transformer monitoring solutions, services and products. Backed by 35 years of innovation, advance technological hardware and user friendly software have enabled continuous monitoring yielding detection of impending issues and providing accurate diagnostics to maximize critical asset operational uptime.



The first step in solving a problem is to recognize that it does exist!

50 % of the assets are at the verge of completing their designed life.

50 % of the skilled workforce will retire within the next 10 years.

Why EPESOL M&D?



FAST

Results in real time or maximum in 30 minutes in DGA on site



PORTABLE

Unlike laboratory results, real time online or in hand DGA



QUALITY

Results from fresh samples without losing sample integrity

A Unique EPESOL Experience

EPESOL's globally acclaimed services, solutions and products fuse together to form a purely ingenious and localized one window M&D solutions thus giving you a unique EPESOL experience of which EPESOL is famous for:



Field Services



Design & Consultancy



Manufacturing



LV Solutions

Transformer Assessment Services



EPESOL provides complete assessment services for large power transformers. With our highly experienced FS and Design & Consultancy arms, assessments by EPESOL cover all possible domains. This helps customer understand operational issues, repair & maintenance recommendations and improve asset life and reliability.

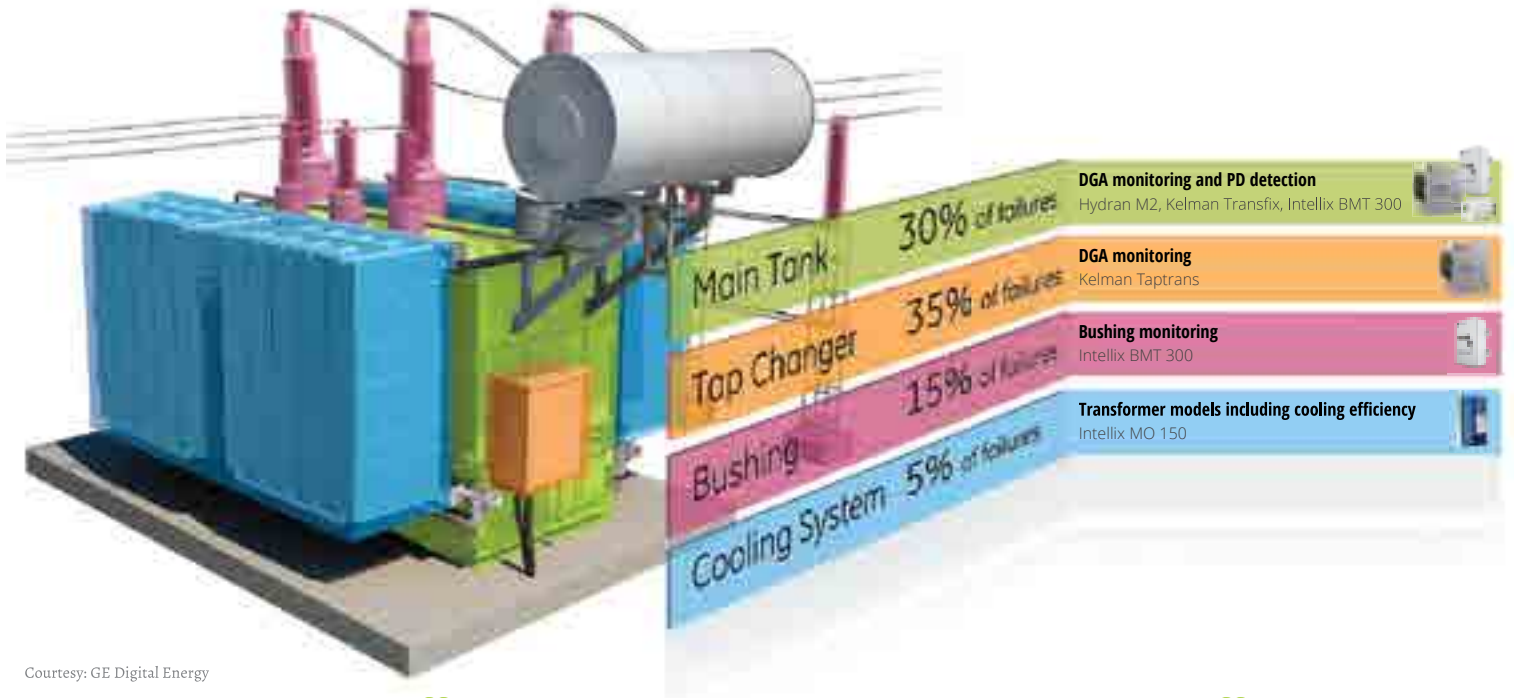
Installation & Commissioning Services



EPESOL has an experienced Field Services Team with years of hand-on experience of M&D. This enables EPESOL of harnessing integrated and complete installation, commissioning and monitoring services. This yield in a peace for mind for customer as EPESOL is always there to ensure safety and smooth running of critical assets.

Complete Transformer Monitoring Solution

Not a problem out there that goes unaddressed!



Courtesy: GE Digital Energy

On/Off-Line Single Gas DGA

Single or composite gas devices, tracking mainly Hydrogen, which is omnipresent across all fault types. Can detect a rising gas level, indicative of a fault condition, and raise an alarm.



On/Off-Line Multi Gas DGA

Precise monitoring of transformers using multiple fault gas DGA. Detailed diagnostics according to IEEE/IEC standards. Up to 8 gases detection



Intellix GLA 100

Small and Intuitive transformer "Gas Level Alarm". Provide early warning alarms in transformer auxiliary panels. Suitable for smaller lower end transformers



Hydran 201 Ti

Small Compact On-line Early Warning Transmitter. Responds 100% to hydrogen. Sensitive to carbon-dioxide. No calibrations needed. Alarms set at pre-defined levels. Self-diagnostic equipment



Hydran M2

All-in-one On-line Transformer-monitoring Device. Responds 100% to hydrogen. Indicate winding hot spots. In addition to hydrogen, monitors carbon-monoxide and carbon-dioxide.



MultiTrans

On-line DGA monitoring unit. Used for a bank of 2 to 3 single phase transformers. Discrete measurement of 8 fault gases plus moisture and nitrogen. Load sensors, inputs, outputs, alarms and extensive communication options



TapTrans

On-line Transformer and OLTC DGA monitoring unit. 8-gas analyzer plus oxygen and moisture. Load sensors, inputs/outputs, configurable alarms and extensive communication options



MiniTrans

Low-cost On-line Discrete Multi-gas DGA Transformer Monitoring Unit. Discrete DGA device monitoring of 3 significant fault gases plus moisture. Used for 3 phase transformers. Includes load sensor, outputs, extensive communications and configurable alarms.



TransFix

On-line Transformer DGA monitoring unit. 8-gas analyzer plus nitrogen and moisture. Features load sensors, inputs/outputs, configurable alarms and exclusive local and remote communication.

