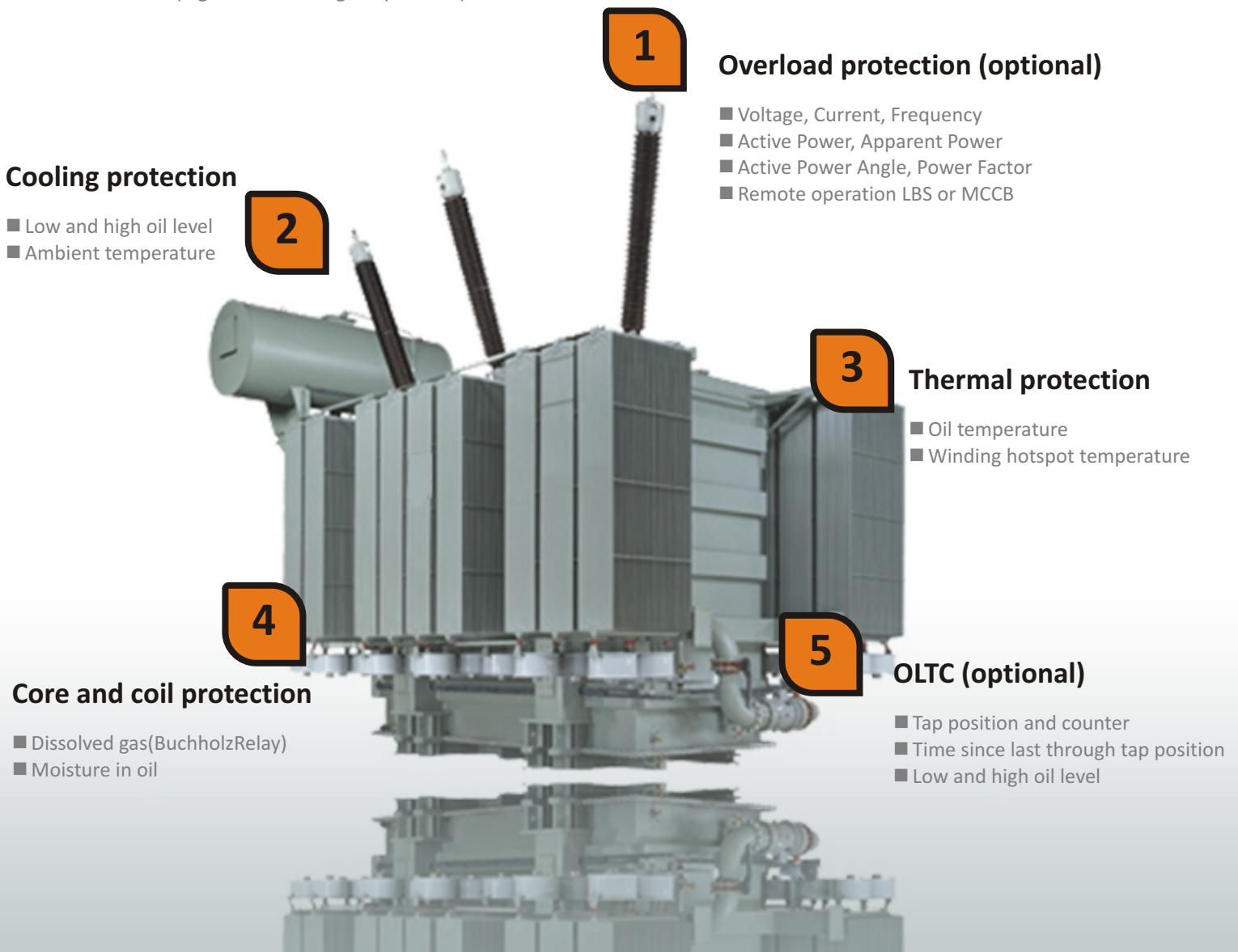


# Distribution Transformer Monitoring

## Reduce transformer damage and downtime with MIMTIS!

Transformer downtime in absence of any condition monitoring can be as high as 20% of its life span. This can be reduced to less than 2% when proper condition monitoring techniques are adopted. MIMTIS based online condition monitoring helps you detect incipient faults and keep downtime and maintenance cost low, while increasing overall equipment life.

MIMTIS can be used to monitor oil filled transformer's vital parameters online from any location. When faults that have potential to permanently damage the transformers arise, it allows disconnection of transformer from load. MIMTIS remote data acquisition technology, coupled with risk analysis engine, provides early indication of a developing fault. This allows maintenance to be scheduled and corrective action to be taken to avoid consequences of the failure. The risk of failure is estimated using alarm rules and detection of deviation from a reference value or threshold (e.g. oil and winding temperature).



# Distribution Transformer Monitoring

## Benefits

- Reduces downtime cost with predictive maintenance
- Allows transformer OEM's to reduce maintenance against warranty cost
- Keeps automated record of transformer parameters required to predict thermal and insulation ageing
- Improves transformer reliability through detection of incipient faults at an early stage
- Maximizes transformer life by avoiding the conditions that reduce life
- Maximizes transformer performance and throughput
- Minimizes overall condition monitoring costs through online monitoring
- Replaces manual monitoring techniques with more scientific methods
- Prevents damage to connected equipment
- Protects transformers and reduces maintenance and spare parts expenditure

## Features

- Enables remote monitoring of transformer using wireless or wired solution
- Enables remote operation of transformer Load Break Switch (LBS) and Molded Case Circuit Breaker (MCCB)
- Web based customizable user interface to manage multiple transformers and users
- Provides data analysis, representation and customizable event reporting
- Enables company wide distribution of information
- Alerts about critical conditions to field staff via SMS
- Supports API's to provide data to third party maintenance and SCADA applications
- Supports wide range of transformer equipments - single application for managing multiple transformers
- Conforms to open standards - provides faster implementation
- Extensibility - can add support for new applications easily

## Sample Report



Human Machine Interface displaying transformer parameters



WTI & OTI trending which can be exported for aging analysis

# Distribution Transformer Monitoring

## Purchase Options

### Software license

MIMTIS software licenses let your company host and manage any combination of MIMTIS applications from within your company's firewall. This is preferred by organizations who find it economical to use their own infrastructure and have large number of transformers to manage. MIMTIS is provided pre-installed and configured as a physical server or can be installed on your existing server through virtualization.

### Annual subscription

Medium size businesses, having few transformers to manage, can benefit by using MIMTIS as a paid service (SAAS) and not having to worry about the infrastructure. Periodic updates and new features are available without any additional cost or effort. Annual subscriptions provide the flexibility to buy the MIMTIS capabilities and capacity your company needs on an annual, hosted basis.

### Pay as you use

Buy a MIMTIS monthly plan and start monitoring instantly. It's the fast, affordable way for smaller organizations that have very few transformers or manage transformers for third party on contract basis.

### Evaluate MIMTIS

To request a MIMTIS pilot please visit [www.masplantiz.com/submit-query](http://www.masplantiz.com/submit-query)

### For more information

For more details about DTM visit [www.masplantiz.com/solutions/distribution-transformer-monitoring](http://www.masplantiz.com/solutions/distribution-transformer-monitoring)

## Utilities

MIMTIS helps utilities to monitor transformer from a central location using any available communication network. It can provide transformer health parameters to the distribution automation (DA) system and predictive maintenance applications. This when adopted can reduce the operational problems of distribution networks due to unavailability of transformer data. MIMTIS not only provides organization wide transformer status and health monitoring but also helps in coordinated controls required to enhance quality and reliability of the supply.

## Service Providers

MIMTIS allows transformer engineering and maintenance service providers to deliver smart services. This provides additional revenue opportunity through service charge for enhanced customer experience and superior transformer maintenance. The service provider can also reduce cost through reduced level of site visits and manpower. With MIMTIS remote diagnostics, your support engineers and service technicians can diagnose problems, prescribe a solution, or dispatch a technician with the solution. The payoff can be astounding, because you can minimize service costs, while you give your customers smartest service in the industry.

## Transformer OEM's

For transformer OEM's it comes to one phrase - "Delivering Smarter Transformers". Smarter transformers can communicate back to manufacturer about their conditions that can potentially increase warranty support cost and downtime. The manufacturer can provide MIMTIS RTU (Remote Terminal Unit) pre-installed at factory or fit it at site with other post delivery installations. Once the transformer is commissioned, customers can view the data through their MIMTIS installation or SAAS account. For early adopters of MIMTIS, this can be a source of product differentiation that provides competitive advantage.

## Industrial and Buildings

In most industries and buildings today transformer form a key asset. Sudden breakdown of these assets can cause unwanted power outages, productivity loss and discomfort. MIMTIS reduces the number of such sudden breakdown and increases transformer life through condition monitoring bases predictive maintenance.

Features provided in this brochure may change without notice. Please verify features for your version with your sales executive.

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