

OILMON

High Voltage Fluid Filled Cable Monitoring



The long term cable asset management programme

www.drallim.com

MANAGEMENT Considerations

Environmental & Public Profile

OILMON users have experienced

HUGE REDUCTIONS IN OIL LOSSES AND REGULATORY FINES

Business Costs

OILMON provides real time pressure data, eliminating the need for routine site visits which drives costs down and delivers

HIGHER PROFITABILITY

21st Century energy demands mean that the electricity transmission and distribution network capacity is pushed hard.

Providers and distributors must make best use of their assets. Performance analysis enables cost effective maintenance schedules to be developed. OILMON equipment can be easily retro-fitted to complement or replace existing legacy installations.

All asset and ambient measured parameters are combined to construct a true picture of how the cable is coping with strains imposed by customer load and the environment.

Wireless Location

Pilot Connected Locations



Helping you to improve your business efficiency

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Maintenance planning

OILMON's algorithm provides advanced 'slow leak' warning facilitating planned preventive maintenance, instead of costly out of hours disaster response helping to deliver

IMPROVED EFFICIENCY

Replacement Strategy

OILMON's historic data helps managers to prioritise asset replacement and repair, thereby Enabling

CAPITAL COST PLANNING

3rd Party Incidents

The OILMON system enables cable damage caused by others or due to earth movement to be quickly detected and actioned, leading to

REDUCED COSTS AND ENHANCED PUBLIC PROFILE

System features

- Designed for HV environments
- High measurement accuracy
- -20 to 55°C operation range
- >200 measurement points/RTU
- Autonomous RTU operation
- Data logging at RTU and server
- Direct DNP3 connectivity option
- Wireless or pilot connected RTU
- Continuous alarm checking
- Leak detection algorithm
- Web database application
- Scheduled or 'ad-hoc' reports

DRAL

Performance Indicators

- Reduced cable oil usage
- Manual gauge reading eliminated
- Daily pressure data available
- Advanced leak trend warning
- Avoidance of major incidents
- Visibility of cable loading effect
- Tank pressure optimisation
- Improved maintenance efficiency
- Years of historic data records

Improved Environmental profile

SECURE



CUSTOMER SCADA STATION

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Engineering, Equipment & Systems Manufacturers

DNP3

Network

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WebView

WebView provides Internet access to your asset performance data. You can view data graphs of recent and past events with the simple use of a web browser. Information such as 'falling' and 'low' alarms and algorithm detected slow oil leaks are highlighted. You can create reports and archive reading history.

Predictive Monitoring

Comparative pressure calculations enable leaky cables to be identified. Leak detection sensitivity is configurable. Preventive measures can be taken weeks in advance of potential cable insulation breakdown.

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Cable Pumping Records

Once a problem cable section has been identified, PFT techniques can be used to locate the leak. This graph illustrates a PFT loading procedure where oil is removed from tanks and replaced with a locating agent and then re-pressurised.



Status Delivery

OILMON offers a range of alarm and performance report methods for the timely delivery of critical alarms and validated incident records.



Turning your data into decisions

Products Summary

Control Equipment

Used to collect data from monitoring transducers and relay it to the system server. Responsible for alarm management.

Transducers

A range of specially constructed and calibrated low power ultra stable instruments suitable for use in harsh environments.

Master Control Unit (RTU)

- Sub-Station located
- Mix of transducers
- 8 transducer ports
- 15km range

40 alarm mapped SCADA Contacts

PSTN or LAN Comms





 Cable Ground Ambient

Pressure

Cable Oil Atmospheric

0.1% Accuracy

over operational range

- **Wireless Control Unit (DART)**
- Field Installed
- GPRS/Wi-Fi
- 110vac/240Vac or rechargeable Battery



3 VFC's functionality



Contact Monitor

- Kiosk Security
- Fluid Level
- Server assigned



Wireless SCADA Interface

- Substation Located
- **GPRS/Wi-Fi**
- Low/Falling Alarm Reporting

Load Current

- 20mA i/p
- ISTAT Compatible
- Scalable Output



Drallim Services

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Server Hosting and System Management

Drallim provide secure server hosting services to ease customers' burden of internal systems integration. A cost effective equipment maintenance and reporting service is also provided, customised to individual requirements. This includes comprehensive scheduled reports and incident alerts.



Asset Protection

Installation and commissioning services can be supplied by National Grid Competent Person and BESC certified engineers.



Equipment Installation

A range of equipment protection and energy saving products designed for electricity utilities are available.



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