VIEW Sensor for GE LRT200 Series Load Tap Changer

Intelligent Technology for Preventative Maintenance

TRANSFORMER HEALTH PRODUCTS

The VIEW sensor's intelligent technology allows personnel to VIEW the operational integrity of an *energized* vacuum tap changer, allowing maintenance schedules set for predictive needs versus reactive situations.

Real-Time Monitoring Technology

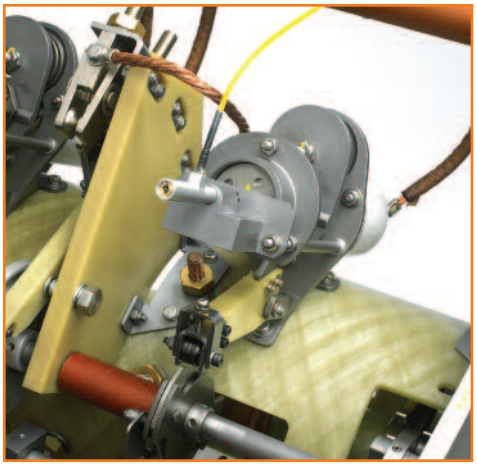
This system offers instantaneous monitoring of critical mechanical components housed within an energized LTC, relaying current LTC health information and wear indicators prior to gas saturation of the insulating oil.

Adaptable to Present and Future Communication Portals

Data is converted to analog output (4–20mA) that can be used in virtually any pre-existing monitoring system or via a simple PLC system utilizing relay outputs for SCADA.

Energized and On-Line

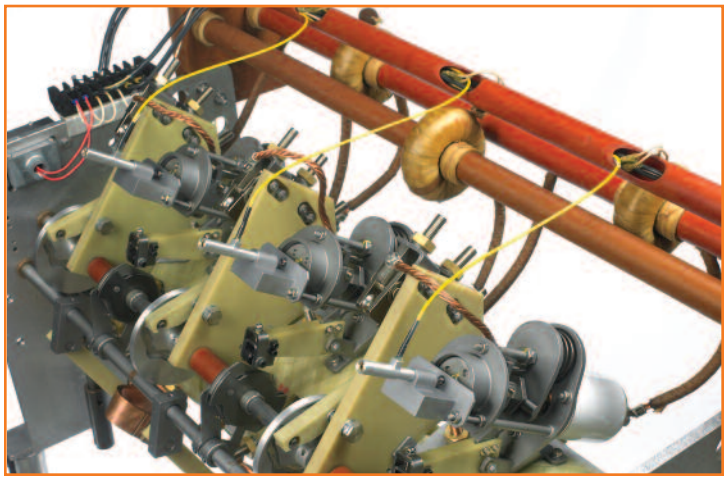
Designed for use in energized high voltage environments using fiber optics which transmit data to a point that is safely accessible by the enduser.



Easily Installed on Existing LRT200 Series Load Tap Changers

System Specifications

- 500 Hz (special configurations upon request)
- 4–20 mA output
- Three (3) channels per system
- Three (3) tank wall feed-through transitions included
- Quick connect fiber optics included
- 120 VAC power



Designed to monitor and display key mechanical integrity indicators of an in-service LRT200 Series LTC, including bottle failures, timing issues and excessive wear, prior to the unit reaching a destructive state only detectable by Dissolved Gas Analysis (DGA).

System monitors three data points at .001" increments with a sampling rate of 500 Hz (every 2 milliseconds).

Three Data Points of Information Detected:

- **Speed** – Vacuum loss, mechanism binding, motor failure, verification of mechanical integrity
- **Timing** – Vacuum loss, mechanism binding, motor failure, verification of mechanical integrity
- **Travel** – Precise contact wear within the vacuum bottle

Key Features and Benefits

- Absolute position sensing—does not require calibration even after power loss
- Identification of arcing conditions or other failure modes before equipment damage occurs
- Instant operational condition feedback—no need to wait for DGA
- LTC vacuum bottle connection ensures proper timing, speed and resting position (wear) of every tap change
- Can be used to validate equipment operation before and after maintenance procedures
- Tracking of long-term data to help predict maintenance intervals
- Prevention of unplanned, costly equipment outages
- Unobtrusive placement requires minimal installation space and effort
- Tested to six million mechanical cycles in a combination of both clean and dirty oil applications

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