

TOLMS

TRANSFORMER OIL LEVEL MONITORING SYSTEM

REDRAGON

Oil & Gas Systems International Inc.

The TOLMS, Transformer Oil Level Monitoring System, from Redragon Oil & Gas Systems International Inc. is a system that can be retro-fitted to existing degasifiers to provide a convenient means of processing oil on energised transformers. The system is available as a factory-fitted option on all Redragon TORS and HVD series oil treatment systems. As a retro-fit it is complete with its own electrical enclosure containing all electrical components and Allen-Bradley PLC.

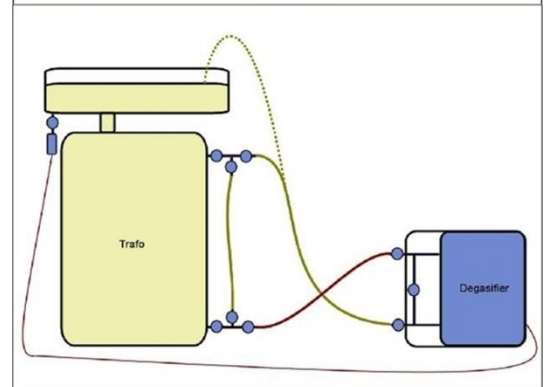
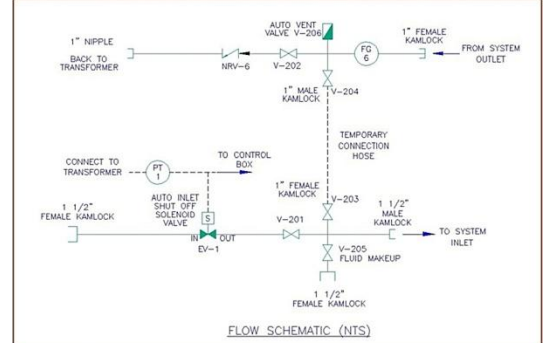
The TOLMS allows the transformer to be conveniently topped-up with extra oil and allows the oil hoses to be filed with oil all while connected to the transformer – no change of hoses or moving oil-filled hoses is required.

Oil level monitoring is achieved via a pressure transducer that is connected to the control panel. A graduated audio-visual alarm system is employed. In the event of an excessive oil level decrease in the transformer, caused by a hose rupture for example, the TOLMS will automatically isolate the transformer drain valve prevent catastrophic loss and transformer damage.

Regular or anticipated oil level changes caused by thermal expansion or contraction can be simply acknowledged by means of a level reset pushbutton on the control panel. This feature allows the instantaneous oil level to be taken as the new reference point and deviation from this reference point trigger the alarm.

The addition of a full-flow bypass facility on the TOLMS allows the oil flow rate into and out of the transformer to be fully controlled from 0% to 100% of the degasifier nominal flow rate.

The TOLMS is available in a 1" version or a 1½" version, for flow rates up to 6,000 litres per hour. Any global voltage/frequency combination is permissible.



(top) Retro-fit TOLMS package
(middle) TOLMS flow schematic
(bottom) TOLMS overview



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