

APPLICATION NOTE

Utility Power Transmission Dewpoint Application



Featured Product
XTR-100

Instrument: Portable Dewpoint

Description

Power utility transformers and circuit breakers require periodic testing and maintenance. Transformers and some circuit breakers are filled with oil and blanketed with dry N_2 . Prior to filling/refilling each must be purged to a specified dewpoint. N_2 bottles must also be checked prior to purging and blanketing. Newer high KVA circuit breakers must be charged with SF_6 (Sulfur - Hexafluoride) gas. This must be dry to retain its spark quenching capability.

Problems

Sampling N_2 from transformers fueled with oil can lead to carry over. A coalescing filter may be required. SF_6 gas can (if arcing occurs) degrade into sulfur and free fluoride gas F_2 is highly corrosive and will attack a sensor. Since sample times are short and this occurrence is infrequent, we do not consider this a major problem.

Points to Consider

Coalescing filters may be necessary. Heavy duty transport cases should be considered if rough use is anticipated.

Sensor Range

XTR-100 (-149 - +68°F) or (-85 - +68°F).

Contact Person(s)

Substation Maintenance Supervisor
Substation Maintenance Manager

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