



TOTUS

TOTAL TRANSFORMER MONITORING

TOTUS is the only system that can diagnose arcing in a transformer

The Challenge for Asset Managers

DGA is typically used to detect discharge of high energy (D2), with Acetylene being the primary marker. The challenge for asset managers is little visibility on when an arc has occurred and in which phase and winding, as well as no tracking on the number of arcing events, thus making difficult to choose and plan the best remedial action.

How Does TOTUS Total Transformer Monitoring Drive Value?

Whereas other monitors can provide basic information detecting acetylene in the transformer, TOTUS delves deeper into arcing activities, **identifying the phase and winding, as well as visibility on the number of arcing events**. TOTUS gives asset managers the ability to correlate data to generate a deeper understanding of changes in the transformer, driving accurate decision making about asset health.

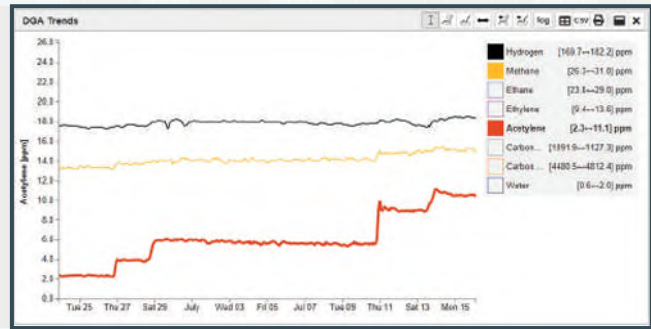
About TOTUS

TOTUS is the world's FIRST and ONLY TOTAL TRANSFORMER MONITOR with market leading specifications and is the ONLY system to combine DGA, Partial Discharge, Bushing Monitoring, Through Fault Currents and Predictive Analytics into a single system.



Data

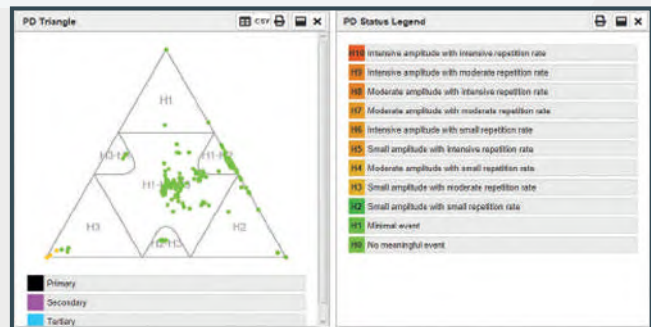
1. **Detect** periodic step increase of acetylene – Genuine internal arcing or something else



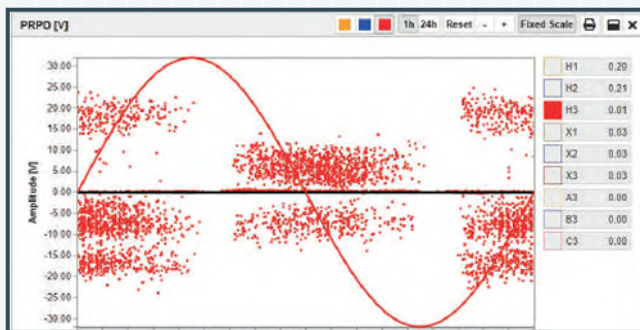
2. **Confirm** with PD Monitor – High Energy Events detected at each C2H2 increase




3. **Locate** arcing winding & phase – PD Triangle shows HV winding phase H3



4. **Identify** the defect failure – PD pattern shows floating object in transformer



Decision

 Inspect transformer focusing immediately on phase H3 at HV side to find evidences of discharges and floating potential objects