H2cloud™

FLEET MONITORING PLATFORM

H2scan®
Advanced Hydrogen Sensing

H2cloud Instant Real-Time Access to Transformer Fleet Data

H2cloud™ is a powerful cloud-based platform providing centralized intelligence for monitoring and analyzing the health of transformer fleets. It seamlessly integrates data from H2scan's Sentinel™ line of wireless communicators, delivering cyber-secure real-time visibility into asset conditions across transformer fleets and delivering alerts of anomalies related to transformer health.

Through advanced analytics capabilities built on a cyber-secure foundation, H2cloud enables proactive management strategies by identifying developing issues and alerting asset managers to potential failures before they occur. This allows utilities to optimize transformer life cycles, prioritize maintenance assignments and avoid costly outages and disruptions to operations that can decrease safety and reliability metrics.

As the marketplace moves toward wireless solutions that are scalable for deployment on a large scale, H2cloud is a powerful platform from H2scan, a recognized industry leader in solutions to proactively manage transformer fleets. H2scan offers the most reliable monitoring systems with the highest return on monitoring investment in the industry.

Key capabilities of H2cloud include:

- Centralized data visualization and insight across the transformer fleet to help evaluate health conditions
- Integrated power quality data from H2scan's Sentinel PRO for comprehensive grid intelligence
- Exceptional design and implementation of cloud solution specifically designed for transformer health
- Seamless integration with enterprise asset management and SCADA/ADMS systems
- Cyber-secure, utility-grade cloud architecture designed for critical infrastructure

Transforming Asset Intelligence

Short Time to Value:
Hours. Not weeks or months.

Fleet-wide Monitoring: Centralized visibility across all transformer assets

Predictive Capabilities: Detect developing faults before catastrophic events occur

Optimized Life Cycles: Prioritize maintenance and replacements

Operational Excellence: Reduce downtime, avoiding costly outages or downgraded reliability metrics

Integrated Intelligence: Combine transformer health and power quality data

Reliable Performance Metrics: Supports calculation of reliability/ performance metrics such as SAIDI

Trusted Solution: Designed specifically for utility and industrial requirements

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With H2cloud asset-intensive utilities, commercial or industrial users managing transformers and transformer fleets can streamline monitoring programs and implement advanced predictive maintenance strategies for transformers. Its centralized intelligence platform translates complex data into clear insights, enabling informed decisions that maximize asset reliability, utilization and life cycles.

H2cloud builds on H2scan's decades of experience and industry-leading expertise in transformer monitoring. Developed in collaboration with major utilities, it provides the comprehensive yet cost-effective intelligence required for effective asset management.

Fast, Powerful and Flexible H2cloud Unlocks a New Era in Grid Modernization and Digitalization of Fleet-Wide Transformer Health

Fast

With instantaneous queries and visuals across real time and historical data, the H2cloud achieves unprecedented ingestion and querying speeds ensuring efficient consumption and analysis of the **vast data** available from modern grids.

Powerful

To support the **scalable** roll out of grid monitoring technology, the H2cloud has been designed to ingest, store, visualize, analyze and report on data captured by an unlimited number of grid monitors with nanosecond resolution.

Flexible

Available **on-cloud** with one-click scaling, H2cloud delivers unrivaled flexibility and allows data ingestion from H2scan's family of hardware to provide a **dynamic, cost-effective**, platform which covers true transformer health visualization for our users.
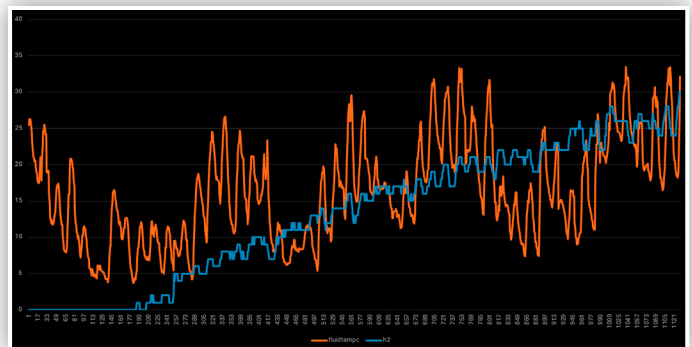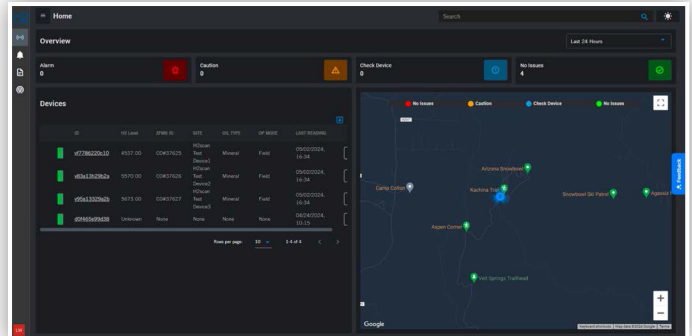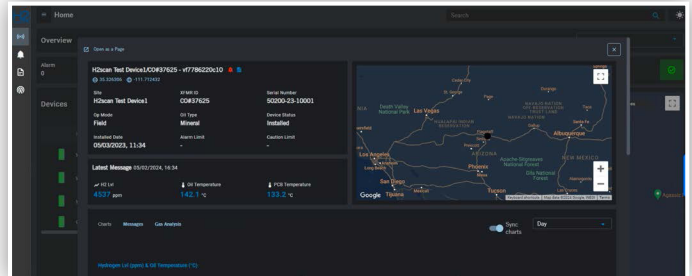
H2cloud provides several tabular or graphic views for users to gain insight into their asset's performance.