Crystal pressure
AMETEK

Case Study

Enhanced Pressure Monitoring with nVision in hazardous areas

Application Overview

A leading energy and petrochemical company in Saudi Arabia, recognized globally for its extensive operations spanning offshore and onshore sites, sought to enhance its operational efficiency and safety standards. Renowned for its rigorous focus on precision and reliability, the company constantly seeks innovative solutions to optimize processes and improve productivity.

The Challenge: Enhancing Pressure Monitoring and Reporting

The organization required a reliable pressure recording solution for its operations.
The existing systems presented several challenges, including:

Limited Accuracy: Existing solutions failed to meet the high precision demanded by critical applications.

Cumbersome Equipment: Traditional pressure recorders were bulky and difficult to use in remote and hazardous environments.

Lack of Modern Features: Traditional pressure recorders were bulky and unsuitable for remote and hazardous environments.

Safety Concerns: Devices needed to comply with stringent safety standards for hazardous zones like Zone 0.

Cost-Effectiveness: Solution was required that balanced advanced features with cost-effectiveness.



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The Solution: nVision Reference Recorder

Haytham Rady, Calibration Products Manager at Naizak Global Engineering Systems, AMETEK's distributor in Saudi Arabia, recommended the nVision Reference Recorder. Following comprehensive demonstrations and trials, the company decided to procure several units for deployment across its offshore and onshore sites.

Key Advantages of the nVision Reference Recorder:

Deadweight Tester Accuracy: The nVision matches the precision of traditional deadweight testers, ensuring reliable pressure measurements.

Compact and Portable: Its small volume makes it ideal for use in confined or remote areas.

Remote Control Capability: The device can be controlled remotely, enhancing ease of use in large-scale or hazardous operations.

Explosion-Proof Design: Certified for Zone 0 hazardous areas, it meets stringent safety requirements within energy and petrochemical applications

Integrated Pressure Recording: Eliminates the need for manual recording with advanced built-in capabilities.

Paperless Reports: Digital reporting streamlines compliance and record-keeping processes.

Cost-Effective: Offers a competitive total cost of ownership compared to traditional pressure recorders.

Results and Impact

Improved Efficiency: The users experienced greater operational efficiency with nVision's modern features and remote control capabilities.

Enhanced Safety: The explosion-proof certification allowed seamless integration into hazardous environments.

Optimized Accuracy: The precise measurements provided by the nVision ensured compliance with the company's stringent operational standards.

Expanding Horizons

Encouraged by the success of the initial deployment, the company is preparing to acquire additional nVision units to expand their usage across more sites in the near future.

Conclusion: A Technology-Driven Success

This case study highlights the impact of the nVision Reference Recorder in addressing the complex challenges of modern industrial operations. With the support of Naizak Global Engineering Systems and AMETEK, the organization not only resolved its immediate challenges but also set new benchmarks for efficiency, safety, and precision. The nVision Reference Recorder continues to prove itself to be an invaluable tool for industries demanding excellence.



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