



Plunger Analysis Software (PAS)

Suite of applications for optimization, fault detection, and training

PAS is a suite of applications based on real-time data collected from ABB's XSeries / RMC plunger lift applications that, when combined with an engineering analysis of both theoretical and empirical mathematical methods, improves control optimization settings and potential fault detection conditions for each particular wellhead.

The application can be installed as a stand alone or a server configuration to offer single well analysis or batch analysis. A training and simulation module is also available and is designed to aid new or inexperienced users for training and what-if scenarios.



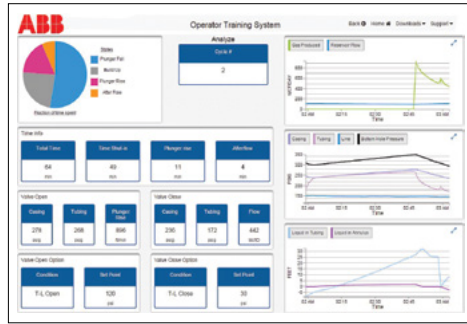
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01 Optimization screenshot



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02 OTS: Operator Training System screenshot



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03 Fault Detection screenshot

Optimization

This module provides the user with statements of “opportunities or exceptions” that have the potential to improve the plunger controller settings in order to fine-tune the application as per the ever-changing well conditions.

OTS: Operator Training System

The Plunger OTS allows a user to simulate various well conditions and experiment with different control strategies to increase well production. The OTS can provide a side-by-side comparison of various well operating strategies. Since the actual well is replaced by a simulation model, operators and engineers can experiment with various scenarios and thus gain insight into the salient features of the advanced solutions. The objective of the Plunger Lift OTS is to provide simulator training and evaluation of control strategies on plunger operated wells.

Fault Detection

This module is capable of predicting a set of possible faults, such as faulty pressure sensors, holes in tubing, leaking valves, well loading and low plunger efficiency, based on a mathematical module.

Application Suite Offering

The base software package consists of two modules, Fault detection, and Optimization. The user will be able to activate both modules with the same license credits (“Runs”) and analyze as many wells as run credits are available. You pay only for the number of executions per PC/Server. Two software installation versions are available. A Desktop / Laptop single user installation, this option provides a GUI interface and allows the user to run each package individually, one well at the time.

The Server multiuser installation provides, in addition to the GUI functionality, the analysis of many wells at the same time in the background as a batch mode, providing daily reports with fault and optimization feedback.

The OTS is licensed per seat and has a predetermined period of time per server and users.