ANALYZER MANAGEMENT

Analyser Management and Data Acquisition System based on CalSys Software

Monitoring the performance of quality measuring instruments will

- keep metering systems to within their specifications and therefore reduce give-away.
- plan maintenance for the most convenient time
- cut costs and increase plant availability
Why implement an Analyzer Management System?

KROHNE Oil & Gas's experience in system integration goes back to 1983. From the very beginning, the goal has been to achieve the highest accuracy – amongst others, by concentrating on validation and calibration. KROHNE consequently created a complete analyser management system that ensures the highest performance.

KROHNE’s Analyser Management Systems are used in refineries to ensure the maximum performance of all analytical equipment in the plant.

Operators and maintenance personnel need high quality data and detailed information on the performance of each individual instrument. Management needs high quality information on the plant wide performance of QMI’s for better process control.

Improve management reporting

The analyser management system reduces time required to gather reliable process data, perform statistical analyses of measurement data and to prepare management reports.

Validation Guidelines

The analyser management system provides guidance for operators or maintenance people working on the instruments, independent of their knowledge level, and allowing for exact duplication of process procedures. The guidance is provided for in every mode of system operation from manual up to fully automatic validation of instruments.
ANALYZER MANAGEMENT

Reduce costs ... … and improve profits

Reduce maintenance costs
Instrument management based on statistical process control enables operators and maintenance personnel to focus on validation and troubleshooting and to avoid unnecessary, repetitive work.

- Increase availability
The analyser management package minimizes interference on instrumentation, thereby increasing the availability of instruments and improving process control.

- Increase process quality
Enhancement of plant or process control and operation based on statistical facts. This allows for fine tuning and increasing the quality of output.

- Reduce “give away”
Better control of processes means less errors and therefore process limits can be improved, while avoiding unnecessary “give away” or waste products.

Instrument Vendor Independent
The analyser management system operates on all quality measurement instruments independent of the manufacturer.
It allows hook-up of all instruments including validation equipment. Furthermore, it eliminates problems coming with the wide variety of custom made software packages, client interfaces and reporting.

System requirements

- Open system with high functionality
- Allows for easy integration (based on SQL Server and OPC)
- User-based system security
- Independent and standard software product

Upgrades, training, helpdesk, and on-site support available on request

Flexible solution: from manual ... to fully automated systems

The analyser management system is available in various configurations ranging from a completely manual system up to a completely automated system. In case of manual systems data can be entered using an Ethernet TCP/IP network. With completely automated systems automatic links to DCS, LIMs and ERP software are integrated. This flexibility allows for gradual upgrades to fully automated system.

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Key features

- Manual up to fully-automatic validation
- Quality Measurement Instrument validation using standard methods
- Evaluation of validation results using standard techniques from Statistical Process Control
- Long-term benchmarking using standard statistical evaluation methods
- Objective, reproducible and traceable validation and calibration results
- Control charts help to decide when to correct instruments and when not Integration of maintenance activities with availability calculations
- Plant-wide and instrument specific reporting
- Optional graphical operator screens, real-time and historical trending, alarm management