Process Analyzers: Recognizing Performance
Siemens Analyzer System Monitoring (AnSM) is a software-based tool configured to monitor and report the performance of all types of analytical instrumentation. AnSM provides a central monitoring system for process analyzers. Initially developed for the Siemens line of process Gas Chromatographs, the architecture allows for inclusion of any analyzer into its monitoring schema.

Placing a value on the investment made in process analyzers can be an elusive and subjective target. Establishing a value for instrumentation may be influenced by past performance. Measuring the past performance of mechanical equipment is typically done by well-established protocols. Measuring the performance of process analyzers, while protocols exist, can be more of a challenge.

AnSM monitors the performance of process analyzers and reports relevant analyzer data, including availability, reliability, validation performance, and calibrations. Providing consistent information on analyzer performance allows the investment to be qualified to a specific process.

System Architecture
Siemens AnSM resides on a server connected to the plant analyzer/DCS network. AnSM requires a minimum time investment to configure and maintain while providing critical information on the performance of your analyzers. Data may be securely accessed thru any machine visible to the server running an Explorer window.

Data visualization is a strong advantage of AnSM. AnSM utilizes Siemens XHQ Operations Intelligence to monitor the health of analyzers and improve product quality through rapid response to abnormal conditions. Intuitive WEB-based real-time status dashboards, SPC charting, and cylinder management help operators track trends, identify bad actors and ensure analyzer accuracy.

AnSM provides a “dashboard” overview of the plant system with respect to process analyzers. The dashboard uses a Green/Yellow/Red alarming scheme to alert the user to the current condition of the analyzers. This quick overview allows efficient use of maintenance hours.

Using drill-down navigation thru a graphical interface, the user may quickly access each level of grouping or to a single analyzer for a more detailed inspection. Each overall view shows accumulative totals for alarms associated with each analyzer related to the group.
AnSM from Siemens
The right choice for analyzer monitoring

Features of AnSM
- Analyzer state of operation – real-time information
- Analyzer validation/calibration monitoring and reporting
- Critical alarms are listed individually on each view
- Alarm notification – let analyzer performance communicate to you
- KPI calculations and statistical procedures – analyzer performance
- User-friendly graphical user interface for configuration and data visualization
- Based on proven technology: Siemens XHQ - Operations Intelligence
- Maintenance logs
- Cylinder tracking – out of gas, out of certification date, etc.
- Accommodates simple and complex analyzers
- Siemens GC’s – plug-n-play, minimal setup required

Value of AnSM
- Provides a solution for analyzer performance reporting – value returned
- Finds the “Bad Actors” – Top 10 List
- Improved maintenance practices
- Increased confidence in analyzer program
- Integrated levels of value
  - Maintenance tech
- Time management
  - Supervisor/engineer
- Reporting availability and KPI performance
  - Management
- Confidence in performance of existing investment
- Analyzer value reporting – creates an expectation and support basis for new investments

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