

Solution Note

Data Management, are you really in Control?



Challenge

When it comes to really being in control, you need to monitor important variables such as temperature, pressure, relative humidity, pH and other process parameters at many locations in your plant. While the concept of monitoring is simple, having an understanding of what is being monitored and the control performance of your process can have a big impact on the success of your business. The need for monitoring begins with principles contained in process guidelines, regulations and knowledge of the process capabilities. These practices minimize the risks to safety and ensure product quality and data integrity.

In addition to knowing whether the process is in control, monitoring the process provides assurance that the product consistently meets quality requirements while also maintaining an efficient process.

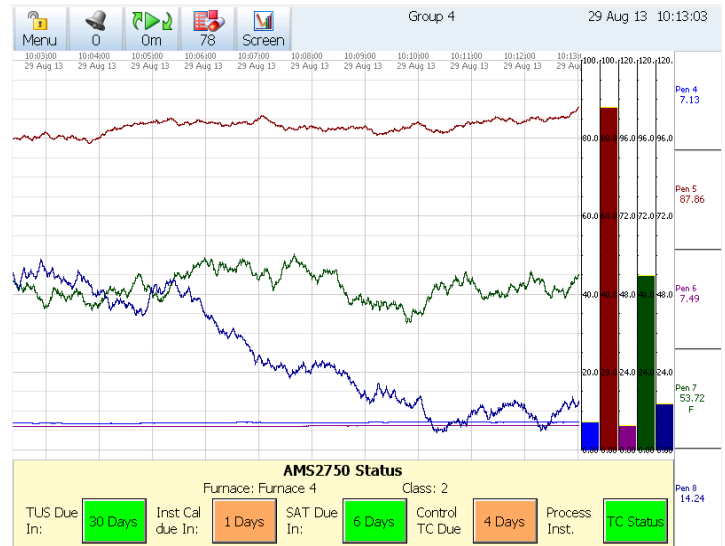
Robust Data Recording

One key requirement is ensuring that the data is robust and reliable. Paperless recorders provide a cost effective way to provide robust data collection along with local visualization of the process while documenting the process performance. Honeywell recorders provide process monitoring and include features to ensure data reliability and security.

Alarms

Recorders also have the capability to alert operators to potentially dangerous situations or out of control conditions, allowing action to be taken when required.

Therefore, users continue to depend on recorders to be a watchdog over the process while also documenting how well the process has performed. The alarming function has the flexibility to show the alarm type and condition, document the alarm, to trigger an alarm action and to provide e-mail alerts.



Reporting

Being able to define the data and reporting requirements is important for knowing if you are really in control. Because regulations can be broad, creating reports needs to be flexible enough to be arranged and organized to understand what is happening in the process and to know things are in control. The ability to create customized reports for your reporting needs will help ensure your documentation is complete and compliant. In addition, electronic data facilitates automatically generating reports.

Solution

Recorders are an important part of the data monitoring processes particularly when it comes to smaller unit level processes and processes that require local management and compliance.

Honeywell's Trendview family of recorders and supporting software offer many features to facilitate the data management process and meet compliance requirements. Honeywell Trendview recorders use secure data storage techniques to ensure that the data cannot be changed without detection. They provide the features necessary to meet the full requirements according to 21 CFR Part 11 for password timeouts, password reuse, password expiration and an audit trail of actions as they occur in the recorder using the recorder's message system. The electronic recording of the process data enables faster analysis and report generation.

The TrendManager software enables users to view the data in a human readable form and create reliable and accurate electronic and human readable copies. The analysis tools facilitate detailed data analysis and archiving of the data for quick retrieval. These data analysis tools allow the user to review or replay the data quickly, overlay data from previous batch runs or other recorders for comparison purposes, annotate the data file by adding secure messages to an observed event for further explanation, and to review alarm conditions and the data leading up to the event. Tools within the analysis package typically include find or locator functions, zooming, print functions, and the ability to turn traces on or off to make it easier to view and analyze the data most important to the user.



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All of this is done without affecting the original data stored by the recorder. In addition to this, the data can generally be exported to a spreadsheet software package for graphing or analysis.

Process Compliance and Validation

Honeywell's recorders also provide a protocol document for IQ/OQ product qualification testing review to aid the user that needs to validate their process. This follows the GAMP Supplier Guide used by suppliers of automated systems for the pharmaceutical industry.

Honeywell's documentation IQ/OQ package provides verification that all aspects of the recorder installation adhere to Honeywell's recommendations, appropriate safety codes, and approved company specifications and design intentions.

This documentation enables the user to demonstrate standard operating procedures for operator training, written methods for calibration verification and system maintenance.

The Honeywell Advantage

Honeywell's Trendview recorders provide flexibility, security, accuracy and networking capability to ensure your data provides the information to know if you are in control.

Meeting the highest standards for process monitoring and recording, Honeywell's solutions allow manufacturers to reduce the burden of managing their data, so they can focus on their business – whatever the industry.