Lab Information Management

dataPARC provides an integrated and cost effective solution to your Laboratory Information Management System (LIMS) needs.

Flexible Recall
All data can be linked to data-and-time stamps or product-specific or grade-specific numbers or codes in the data historian to allow tag data to be quickly accessed, displayed, or analyzed over specific time periods or for specific products or grades.

Reporting & Notifications
Send data to manufacturing execution systems (MES) and other data historians, or configure reports to summarize critical lab data and calculations and automatically notify personnel when data falls outside of operating envelopes or other limits.

Limits & Alarms
Establish product-specific and grade-specific upper and lower limits for each data tag to help with centerlining efforts. Multiple limits and alarms can be set up to color-coded displays and alarm trees can be set up to assign reasons for alarms.

Data From Any Source
Log data from lab instruments and automated testing equipment and store it alongside process data in the historian.

Cost Effective Integration
Use built-in statistical tool set to create histograms and X-Y plots to explore the relationships between process data and/or lab data.

Security
For every record stored and every value changed, detailed audit trails are created to track changes made by these users.
Key Features

**Integrated Scripting Engine**
Lab test results often provide inputs to other calculations and the integrated scripting allows calculations to be performed automatically, reducing errors and improving the accuracy of stored data.

**Highly Configurable Manual Data Entry**
The standard tabular MDE format provides incredible flexibility with over a dozen options for data entry, including pick lists for data validation, multidimensional entry, automated calculations, and entry restrictions. PARCgraphics Designer’s form-based MDE tools offer a platform for constructing custom data entry screens. Enter data against a record from anywhere within the dataPARC environment, across multiple MDE pages, PCs, and locations.

**SPC/SQC Analysis**
Product-specific and grade-specific upper and lower limits can be easily established in PARCview for each data tag to help with centerlining efforts. Multiple limits and alarms can be set up to color-coded displays and even automatically notify personnel when data falls outside of operating envelopes or other limits. Alarm trees can be set up to assign reasons for alarms, and Pareto charts can be created to help identify the prevalent causes of alarms.

**Flexible Record Creation**
Configure an MDE displays record creation logic to match data requirements. Link new records to production units (SKU), or schedule record creation for periodic testing. Add records on demand for non-scheduled testing, and even query 3rd party databases for record information. Each record contains identifying information, such as time, product label, or grade.