

## LMS Pharma

The **LMS Pharma** monitoring software system collects, displays and analyzes data for all phases of pharmaceutical operations. It provides automated and sophisticated alarm, notification, data viewing, reporting and auditing capabilities compliant with 21 CFR part 11.

Designed for high-reliability secure facility monitoring, **LMS Pharma** integrates robust and comprehensive security with system data redundancy and an intuitive easy-to-use interface. Real time and historical data can be securely viewed and analyzed in maps, trend charts (graphs), data tables, and fully customizable reports, with full alarm notification, acknowledgment and reporting capabilities.

Integral and powerful backup and redundancy support help maintain continuous operation. Its flexible architecture offers customization options and enables easy future expansion. Strong support for a wide range of industry standard platforms and protocols enable seamless integration with existing equipment, control systems, and IT environments.

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### **Easy and Intuitive User Interface**

- ★ Multi-level, "drill-down" maps.
- ★ Real-Time and Historical Trend Charts (Graphs) & Data Tables.
- ★ Direct action real-time data views provide point-and-click data viewing, analysis and response.
- ★ Fast data grouping and refinement.
- ★ Copy and paste directly into Microsoft Excel® and Word®.
- ★ Built-in Conformance Reports.

### **Full Alarm Management and Acknowledgment**

- ★ Email and SMS alarm notifications
- ★ Alarm Acknowledgment through E-mail & SMS
- ★ Optional phone notification & response module

### **Easy Automation & Control systems Integration**

- ★ Industry standard protocols including OPC DA, OPC XDA, OPC HDA, OPC A&E, ODBC (SQL) and more
- ★ Supports a wide range of sensors, PLCs and instruments

### **Seamless Integration with Existing IT Architecture**

- ★ Virtual machine option for hypervisor installation
- ★ "Zero configuration" thin client with full features
- ★ Works with leading enterprise backup programs

### **Customizable Operation**

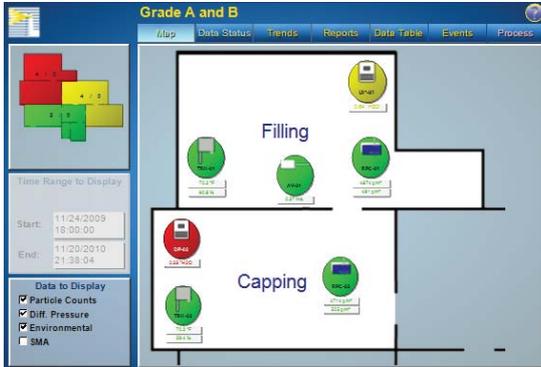
- ★ Customize or create reports using industry standard Crystal Reports®
- ★ Sophisticated scheduling & control capabilities
- ★ Full Localization for operators and administrators
- ★ Optional Batch/Lot recording and reporting module

### **Industry-leading Security**

- ★ 21 CFR Part 11 Compliant
- ★ Full audit trail with customizable views & reports
- ★ Thoroughly integrated user and group security including Password Aging, Inactivity Logout and Electronic Signatures
- ★ Secure database with robust data security
- ★ Kiosk mode for secure production

### **Comprehensive backup, redundancy and fail-over**

- ★ Automated data collection fail-over and fail-back
- ★ Full redundancy backup of all configuration and data
- ★ View client redundancy option allows remote viewing even when main server is down

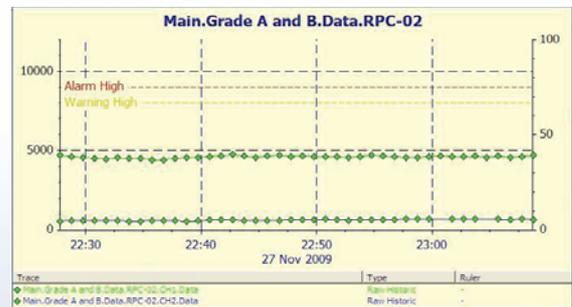


Multi-level maps continually provide an overview of the entire facility, allowing 1-click “drill-down” to view detailed status of areas in alarm. All items on maps are active and provide data viewing, analysis and alarm management options directly through the map.

Data	Value	Last Updated	State
AV-01	0.49 m/s	11/27/2009 22:16:45	Normal
DP-01	0.98 "H		
DP-02	0.66 "H		
RPC-01 0.5µ	4411 p/m		
RPC-01 5.0µ	895 p/m		
RPC-02 0.5µ	4812 p/m		
RPC-02 5.0µ	539 p/m		
RPC-10 0.5µ	4825 p/m		
RPC-10 5.0µ	490 p/m		
RPC-11 0.5µ	5002 p/m		
RPC-11 5.0µ	495 p/m		
SMA-01	0.130 C		
SMA-02	0.130 C		
TRH-01 Humidity	59.3 %		
TRH-01 Temperature	69.8 °F		

Historical and real time data tables provide color-coded and localized data and alarms. All tables are active, providing quick and easy analysis of the data and alarm acknowledgement. Advanced search and sort features are available with a single mouse click.

Standard reports provide records for compliance with reporting and auditing requirements in an easy-to-use format. The standard reports can be customized and all can be displayed on the monitor, printed to a printer or exported to a variety of file formats.



Trends support control lines, multiple axes, linear or logarithmic scales and immediate “click-less” zooming to any range of data. Trends can be launched for any data point at any time or pre-defined and customized to specific data and view parameters.

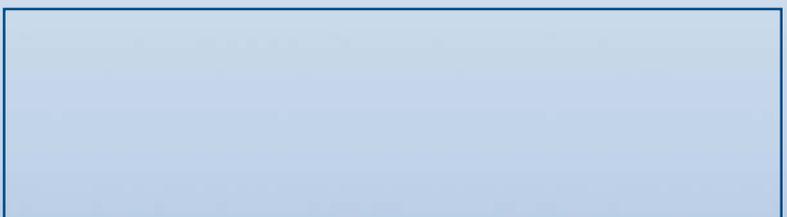
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