

# Plant Historian AM

## Alarm Management System

Long-term archiving system for alarm analysis and reduction

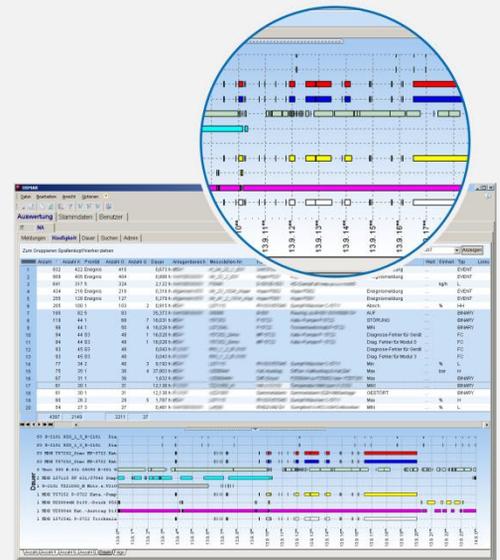


*Plant Historian AM is a long-term archiving system for PCS-events, operator interventions and batch protocols. Alarms and events can be analyzed comprehensively and can be used to optimize production processes.*

**Plant Historian AM** is a corporate-wide, central solution for long-term event archiving and analysis. Comprehensive analysis functions enable structured approaches to reduce alarms and to optimize plants. Sustainable alarm management supports the plant staff and ensures the plant security.

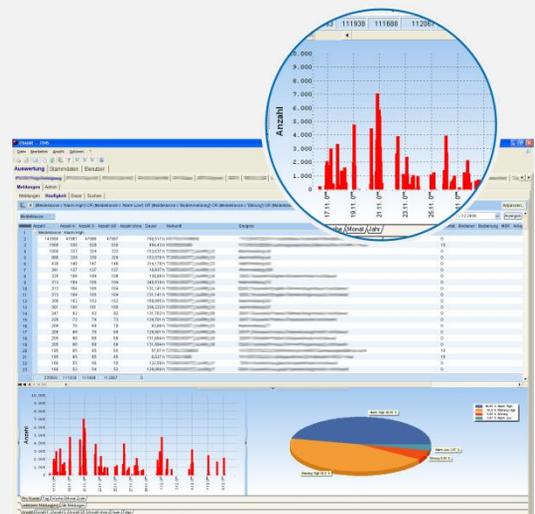
**Plant Historian AM** provides relevant information for plant operators, e.g.:

- ▶ A&E frequency evaluation with bar and pie chart visualization and different analysis periods, e.g. hours, days, month, years
- ▶ Evaluation of A&E-duration with Gantt charts
- ▶ Identification of follow-up alarms within a predefined time range
- ▶ Distribution of alarm frequency by divisions, priorities or notification classes
- ▶ Instant or periodic forwarding of alarm and events via email, phone or SMS
- ▶ Monitoring the availability of technical equipment



## Functions:

- ▶ A&E overview with hyperlinks to process instructions
- ▶ Monitoring and evaluation of A&E duration, triggering of notification processes (via email, phone or SMS)
- ▶ KPI reporting according to ISA-18.2 (follow-up and flicker alarms, average alarm frequency per operator)
- ▶ Instant alarm and event forwarding via SMS, email or phone
- ▶ Automatic KPI reports or event-based failure reports
- ▶ Visualization of different PCS/PLC connections on a central A&E monitor
- ▶ Visualization of historic and following alarms
- ▶ Column-related grouping, sorting and filter functions for A&E
- ▶ Analysis and filter options can be saved as user profiles



**PCS-independent - scalable - intuitive**



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SOLUTIONS

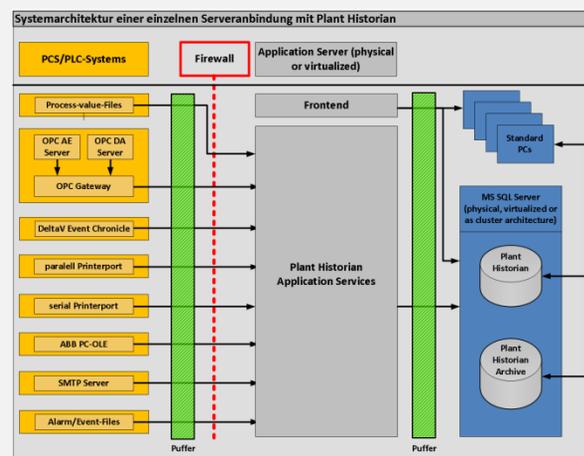
### Benefits:

- ▶ High plant security
  - ▶ Shorter reaction time due to alarm notifications via SMS, email or phone
  - ▶ Supports the plant staff with references to process instructions
- ▶ Supports alarm reduction processes
- ▶ Reduces the plant staffs' workload
- ▶ Identifies defective measuring units and error sources
- ▶ Plant benchmarking according to ISA-18.2
- ▶ Identifies issues of the plant operation process
- ▶ Protects and transfers the plant knowhow with references to process instructions
- ▶ Feedback for alarm management operations
- ▶ Transparent analysis of all alarms and events
- ▶ Identifies potentials for optimization
- ▶ Reduces reaction time
- ▶ Flawless, automatic reporting
- ▶ Corporate-wide, central solution; no client installation required
- ▶ Central infrastructure: low costs for hardware, maintenance, support and license
- ▶ Short implementation phase, low costs for implementation and configuration
- ▶ Intuitive, customizable user interface; low costs for trainings
- ▶ Connectable to every PCS/PLC-system
- ▶ Potentials for optimization can be anticipated at an early stage and can be implemented sustainably

Plant Historian alarm management ensures the plant **security**, increases the data **availability** and **optimizes** the production process.

### Technologies:

- ▶ Interfaces to standard PCS/PLC-systems
- ▶ OPC-gateway tested and certified by Siemens
- ▶ Connection via OPC, printer interfaces to PCS/PLC:
  - ▶ Siemens: Simatic PCS7, S7, WinCC, Teleperm M, COROS
  - ▶ Emerson: Delta V
  - ▶ Honeywell: Experion, FSC102
  - ▶ ABB: Freelance 2000, 800xA, Advant Master, Symphony Maestro UX, Contronic P, Contronic E, Operate IT, Digimatic
  - ▶ Foxboro: I/A Series
  - ▶ B&R: APROL
- ▶ Memory and runtime-optimized long-term archiving of A&Es, operator interventions and batch protocols
- ▶ Central SQL-database and central application server
- ▶ High availability due to data buffering and redundancies
- ▶ Scalable system: new PCS/PLC server connections can be added



PCS-independent - scalable - intuitive