

Advanced Alarm and Event Analysis

Maximize your plant's operations!

What's new in AlarmAnalyst® Ver 8.0:

Integrated Alarm Documentation

Rationalizing alarm limits, priorities and procedures is a critical requirement when implementing an alarm improvement program*. AlarmAnalyst® makes this process as painless as possible by integrating your plant's operations with on-line documented procedures, impacts and resolution. With a single click, users are able to instantly review and update procedures, rationalization status and a host of other information.

Key Features

- Interactive searching and editing - click on any alarm or event from any display in AlarmAnalyst to call up its details
- Text searching by Plant, Area and Tag
- Intelligent scripting insures that only configured alarms are imported from the control system
- Built on industry standard Microsoft SQL server for maximum compatibility with other systems
- Follows EEMUA - 191 and ISA 18.02 standards.
- Supported systems include ABB, Foxboro, Honeywell, Yokogawa, Emerson, Rockwell and others.
- Password protected environments

The screenshot shows the AlarmAnalyst software interface. A window titled "Alarm Documentation" is open, displaying a table of alarm tags with columns for Tag, Type, Unit, Desc, Console, and D&R Done. Below the table, there are sections for Alarm configuration (Configured, Proposed, Approved), Field/Value, Cause, Verification, Corrective Action, Associated Tags, Comment, Consequence, Impact, Max Response Time, Priority (Original, Recommended, Approved), Override Reason, Deadband, and Engineering Units. A yellow circle highlights the "SQL Alarm Documentation Database" connection point at the bottom of the window.

Reports & Benchmarking

New benchmark capabilities include a single button click "Metrics Report". This comprehensive report instantly generates the metrics required for EEMUA-191 and ISA 18.02 compliance. Simply click on the report to benchmark your plant's alarm rates, distributions, total time in alarm, burst rates, standing times and priority distributions.

All reports can be edited with comments, additional charts inserted in hi-res vector format and saved as a Microsoft Word document.

The screenshot displays the "AlarmAnalyst Metrics Report" for a daily report starting on Sunday, August 27, 2006, 12AM and ending on Monday, August 28, 2006, 12PM. The report includes several charts and tables:

- Hourly Alarm Rates:** A bar chart showing the number of alarms per hour over a 24-hour period.
- Standing Alarms:** A line graph showing the number of standing alarms over time.
- Alarm Levels:** A bar chart showing the distribution of alarm levels.
- Summary Statistics:**
 - Total Alarms Reported: 417
 - Total Unique Alarms: 29
 - Average Alarm Rate: 17.38
 - % Time Above Limit(s): 79.2%
 - % Time above limit(10): 81.2%
 - Alarms standing more than 12 hours: 1
- Top Ten Alarm Listing:** A table showing the top ten most frequent alarms.

Tag Name	Description	Freq	Total Dur
PT7400	REACTOR #1 PRESSURE	101	14:13:05
FT2300	BYPRODUCT FLOW	79	12:38:00
AT8800	ACID MIX TANK	61	12:18:30
KV4530	PRODUCT INLET	29	3:05:30
PS4700	FEED PUMP	21	3:44:35
KV4526	50% CAUSTIC	20	3:44:05
M57300	STORAGE TANK #1 AGITATOR	15	8:55:05
LT4501	FEED TANK LEVEL	13	12:15:00
PS4706	ACID METERING PUMP	13	12:49:00
FT2302	ACID FLOW	12	12:38:05
- Alarm Priority Distribution:** A table showing the distribution of alarm priorities.

Priority	Count
1	2
2	3
3	0
- Alarm Burst Rate:** A line graph showing the alarm burst rate over time.
- Challenging Alarm Listing:** A table showing the top ten most challenging alarms.

Tag Name	Description	Peak Count
PT7400	REACTOR #1 PRESSURE	101
FT2300	BYPRODUCT FLOW	79
AT8800	ACID MIX TANK	61