



## Alarm Management **TURN NOISE INTO KNOWLEDGE**

Effective alarms are integral to the safety and efficiency of all process industries. Each alarm requires an operator action, but process plants and pipelines are overwhelmed with nuisance alarms that mask the critical ones. When too many alarms overwhelm or cause complacency, issues get lost in the noise. How can alarms be managed more effectively?

DON'T BE ALARMED When managed correctly, alarms improve plant safety, operator efficiency, and they reduce trips, maintenance costs, and environmental excursions.

**SAFETY ISN'T IN NUMBERS** One of the threats to successful alarm management is the number and frequency of alarms. Standards organizations like EEMUA and ISA recommend no more than an average of 300 alarms/day or 1-2 alarms/10 minutes, but actual industry averages are well above that.







Average Alarms per Day Average Alarms per 10 Minutes

## **ALARMING COSTS** The price to pay for ineffective alarm management is high.



Amount lost per year due to abnormal situations





Cost of a major incident suffered once every 3 years in refineries



Amount of industry claims reported to insurance companies per year due to equipment damage

## **CUT THROUGH THE NOISE**



SCADA alarming



Design alarms for the operator: Understandable alarm descriptions lust-in-time alarms (not too early or too late)



Not everything needs to be alarmed: Define pre-trip alarms instead of trip alarms Avoid redundant or duplicate alarms

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Silence the unnecessary • Expect 50% reduction of active alarms by doing

alarm and event analysis • Expect 75% improvement

in total alarm count by doing alarm rationalization

## HONEYWELL



Number of Readers Choice awards won for DvnAMo Alarm Management Software



Number of plants installed with Honeywell's Alarm Management solution...and counting



Years of experience in alarm management with experts around the world



Honevwell's rank as provider of alarm management software and services to the process industries

Source: ASM® Consortium

Honeywell can help. Visit us at www.hwll.co/dynamo