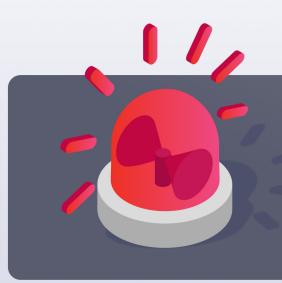
# ALARM MANAGEMENT

#### **PLANT OF THE FUTURE: TURNING 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.



OIL & GAS



**1,500** 



**POWER** 

**±1,200** 

Average Alarms per Day

**2,000** 

Average Alarms per 10 Minutes

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



situations \$10B

**Amount lost** 

per year due to abnormal



per year \$100K -\$1M

**Incident costs** 

per plant

\$80M

Cost of a major

in refineries



**Amount of industry** claims reported to insurance compa-

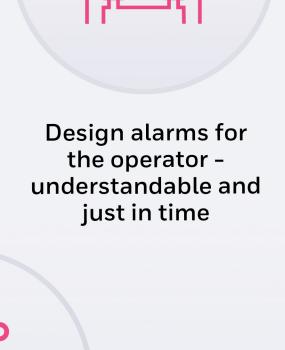
nies per year due to equipment damage

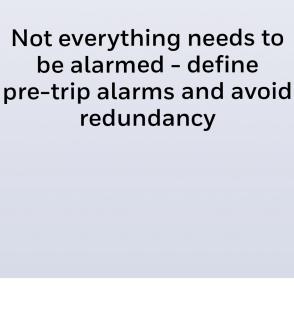
\$2.2B

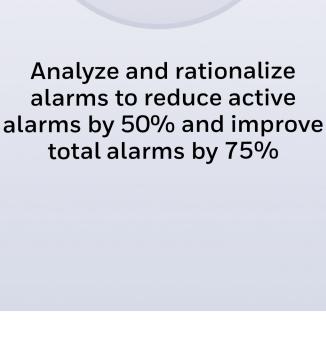
**CUT THROUGH THE NOISE** 











## HONEYWELL

03

Number of years in a row as Control Magazine Readers'

Years of experience in alarm management

1020

Unique sites where Honeywell's alarm management software is installed... and

counting

Choice for alarm

management

Honeywell's rank as provider of alarm management software and services to

the process industries

with experts around

the world

SOURCE: ASM CONSORTIUM

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