

# **FALCONEER Technologies, LLC**

**MAKING PLANTS SMARTER, SAFER  
& MORE PROFITABLE BY DESIGN**

**VIRTUAL WORKFORCE**

**HOW WE ARE DIFFERENT**



**[www.falconeertech.com](http://www.falconeertech.com)**

# WHY CAN'T SIEMENS, EMERSON, HONEYWELL, YOKAGAWA, FOXBORO DCS or SCADA DO THIS?

- DCS or SCADA monitors individual points only – FALCONEER monitors entire process and interactions between points as well.
  
- Multi-Level Auditing & Advising
  - Accounts for ALL Information from Process
  - More than just Individual High/Low Alarm Limits and Trending
  - Real-time Continuous vs. Manual or Scheduled
  - More than just instrument or hardware/equipment diagnostics
  - Can identify Unmeasurable variables – leaks, plugs, fouling, efficiency, CV issues
  
- Proactive and Predictive versus After-The-Fact
  - WHAT & WHEN & WHY



# WHY CAN'T SIEMENS, EMERSON, HONEYWELL, YOKAGAWA, FOXBORO DCS or SCADA DO THIS?

- Patented Method and System
  - Adds “wisdom” or intelligence to the raw information.
  - Secondary model generation for enhanced cross-checking
  - Diagnostic Rules & Patterns Automatically Generated and Updated
  - Multi-Level, Simultaneous, Dynamic \Steady-State, Real-time Analysis Methods
  - NO PROGRAMMING REQUIRED by USER
  
- Certain Functions Possible (SPC, KPI, HART, Condition Monitoring)
  - Not Single, Comprehensive Package like FALCONEER but Expensive Add-ons
  - Requires Significantly More Time, Effort, Cost, Long-Term Support to Configure & Maintain
  - Focused on Control Loops or Rotating Equipment, Not Instrumentation or Data Quality or Entire Process



# The FALCONEER Advantage

Features/Product	FALCONEER™ IV	OSI PI	Aspen IP21 w/
			PE, Q & KPI
Process Graphics	No	Yes	Yes
Data Collection	Yes	Yes	Yes
Data Sharing	Yes	Yes	Yes
Data Analysis	Yes	Yes	Yes
Alarming	Yes	Yes	Yes
Single Point Trending	Yes	Yes	Yes
Multi-Point Trending	Yes	Yes	Yes
<b>SPC Analysis &amp; Advising</b>	<b>Yes</b>	Partial	Partial
SPC Trending	Yes	Yes	Yes
<b>Fault Analysis &amp; Advising</b>	<b>Yes</b>	No	No
<b>Fault Analysis Trending</b>	<b>Yes</b>	No	No
KPI Calculations	Yes	Yes	Yes
KPI Trending	Yes	Yes	Yes
<b>Data Reconciliation</b>	<b>Yes</b>	No	No
<b>Data Validation</b>	<b>Yes</b>	No	No
<b>Calculation Validation</b>	<b>Yes</b>	No	No
<b>Inferential or Soft Sensors</b>	<b>Yes</b>	No	No
<b>Process Knowledge Base</b>	<b>Yes</b>	No	No
Report Generation	Yes	Yes	Yes
Email Capabilities	Yes	Yes	Yes
<b>Configured Ready to Use</b>	<b>Yes</b>	No	No
<b>No Programming Required for Use</b>	<b>Yes</b>	No	No

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# The FALCONEER Advantage

Features/Product	FALCONEER™ IV	Honeywell DCS	Aspen IP21 w/	Aspen IP21 w/	Aspen IP21 w/
			Process Explorer (PE)	PE & Q (SPC)	PE, Q & KPI
Process Graphics	No	Yes	Yes	Yes	Yes
Data Collection	Yes	Yes	Yes	Yes	Yes
Data Sharing	Yes	Yes	Yes	Yes	Yes
Data Analysis	Yes	No	Partial	Partial	Yes
Alarming	Yes	Yes	Yes	Yes	Yes
Single Point Trending	Yes	Yes	Yes	Yes	Yes
Multi-Point Trending	Yes	Yes	Yes	Yes	Yes
<b>SPC Analysis &amp; Advising</b>	<b>Yes</b>	No	No	Partial	Partial
SPC Trending	Yes	No	No	Yes	Yes
<b>Fault Analysis &amp; Advising</b>	<b>Yes</b>	No	No	No	No
<b>Fault Analysis Trending</b>	<b>Yes</b>	No	No	No	No
KPI Calculations	Yes	No	No	No	Yes
KPI Trending	Yes	No	No	No	Yes
<b>Data Reconciliation</b>	<b>Yes</b>	No	No	No	No
<b>Data Validation</b>	<b>Yes</b>	No	No	No	No
<b>Calculation Validation</b>	<b>Yes</b>	No	No	No	No
<b>Inferential or Soft Sensors</b>	<b>Yes</b>	No	No	No	No
<b>Process Knowledge Base</b>	<b>Yes</b>	No	No	No	No
Report Generation	Yes	No	Yes	Yes	Yes
Email Capabilities	Yes	No	Yes	Yes	Yes
<b>Configured Ready to Use</b>	<b>Yes</b>	No	No	No	No
<b>No Customer Work Required</b>	<b>Yes</b>	No	No	No	No

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# The FALCONEER Advantage

Features/Product	FALCONEER™ IV	GE Cimplicity	GE Ifix
Process Graphics	No	Yes	Yes
Data Collection	Yes	Yes	Yes
Data Sharing	Yes	Yes	Yes
Data Analysis	Yes	No	Available
Alarming	Yes	Yes	Yes
Single Point Trending	Yes	Yes	Yes
Multi-Point Trending	Yes	Yes	Yes
<b>SPC Analysis &amp; Advising</b>	<b>Yes</b>	No	No
SPC Trending	Yes	No	Available
<b>Fault Analysis &amp; Advising</b>	<b>Yes</b>	No	No
<b>Fault Analysis Trending</b>	<b>Yes</b>	No	No
KPI Calculations	Yes	No	Available
KPI Trending	<b>Yes</b>	No	No
<b>Data Reconciliation</b>	<b>Yes</b>	No	No
<b>Data Validation</b>	<b>Yes</b>	No	No
<b>Calculation Validation</b>	<b>Yes</b>	No	No
<b>Inferential or Soft Sensors</b>	<b>Yes</b>	No	No
<b>Process Knowledge Base</b>	<b>Yes</b>	No	No
Report Generation	Yes	No	Available
Email Capabilities	Yes	No	Available
<b>Configured Ready to Use</b>	<b>Yes</b>	No	No
<b>No Programming Required for Use</b>	<b>Yes</b>	No	No
<b>Total Solution Cost</b>	<b>LOW \$</b>	Expensive \$\$\$	Expensive \$\$\$

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