

APROMON™

PID Control Monitoring Software for Chemical Plants and Refineries

Online Process Control Monitoring is a rising, new field. Plants can be run more efficiently with modern online control monitoring tools.

As much as US \$300K to \$2million/year recurring savings can be realized by modern control monitoring software tools.

PiControl's Apromon PID Control Quality Monitoring software generates a report automatically everyday, identifying the worst PID control loops.

Apromon allows process control engineers to quickly focus on the loops deserving the most attention. Apromon helps to quickly identify control problems and helps to restore the control quality of the affected control loops.

Apromon Functions:

- ★ Which loops are not controlling well?
- ★ Which loops are oscillating?
- ★ Which loops have matching frequencies?
- ★ Which control valves are not working well?
- ★ Which loops need proportional adjustment?
- ★ Which loops need integral adjustment?
- ★ Which loops need derivative adjustment?
- ★ Which loops need filter adjustment?
- ★ What is onstream factor of the loops?
- ★ Which loops do the operators intervene most?
- ★ Which loops have instrument signal problems?
- ★ And many other diagnostic assistance for the control room engineer.

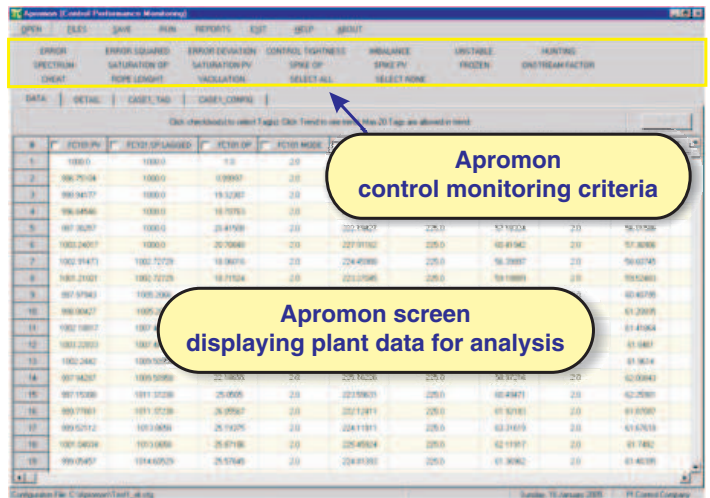
Benefits of Using Apromon:

- ◆ Increase Plant Throughputs
- ◆ Push the Plant closer to Operating Constraints
- ◆ Improve Plant's Profit Margin
- ◆ Increase Engineer/Technician Productivity
- ◆ Stabilize Plant Operation
- ◆ Improve Plant Reliability and Safety

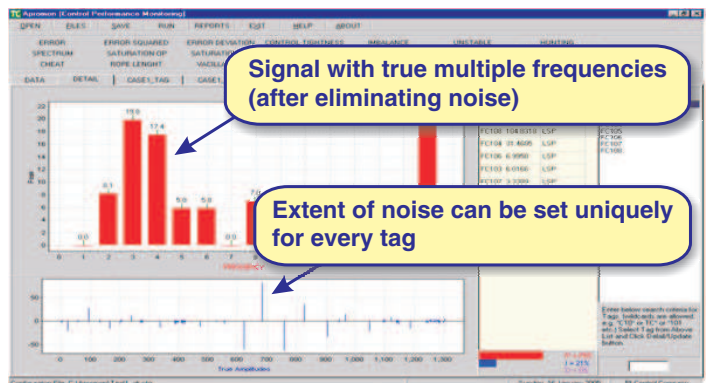
Functionality

- *Integrated Error*
- *Error Squared*
- *Control Error Deviation*
- *Control Tightness*
- *Imbalance*
- *Unstable*
- *Hunting*
- *Spectrum*
- *True Amplitude Display*
- *Frozen*
- *Onstream Factor*
- *Operator Cheating*
- *Rope Length*
- *Vacillation*
- *Spike OP*
- *Spike PV*
- *Output Saturation*
- *PV Saturation*

Powerful, Easy User Interface



Noise Control By "Chatter" tuning



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