INVANSE
Maximizing the Machine

CONTROL & ANALYSIS

InVanse® BirdsEye

InVanse BirdsEye is a comprehensive modular software system that is designed to increase plant-wide awareness and drive accountability. BirdsEye provides both **Production Control** monitoring and detailed **Process Analysis** to ensure maximum longevity, throughput and uptime of all automated machinery. Designed to use existing controls architecture, BirdsEye decreases upfront cost of integration. BirdsEye also interfaces directly to many other common devices via wired and wireless technologies.

Real-Time Viewing
Desktop/Laptop
Android App
Web Browser

Real-Time Monitoring
Recipe Change
PLC I/O Force
Downtime

User Toolkits
Engineer Tools
Programmer Tools

Predictive Maintenance
See Below

Automated Alerting
User Definable
Team Definable

Value Add Services
User Training
Theoretical Education
System Support
Virtual Engineering

InVanse® BirdsEye Predictive Maintenance

The application of BirdsEye statistical process analysis allows plants to “predict” soon-to-be urgent issues and “prescribe” appropriate courses of action, before unplanned downtime occurs.

These are some of the elements that can be measured and automatically analyzed:

Vibration
Motor Bearings
Pump Cavitation
Reducer Gears

Temperature
Motors
Pumps
Drives

Pressure
Counter-Balance
Cushion
etc.

Strain
Tonnage
Robot Wrist

Current
Magnetic Belts

Fluid Flow
Flow Rates

Vacuum
Evacuation Time
Seal Quality

Energy
Robot
VFD

Servo
RMS Current
Peak Position Error

Repeatability
Clutch/Brake (Wear)
Cycle Time (Belt Tensions)

Network Reliability
Unusual Packet Retries
Noise

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InVanse® BirdsEye Standard Attributes

BirdsEye was designed to encompass the widest array of physically obtainable machine data; first interfacing what already exists (PLC I/O), than adding additional devices (IIoT, Instrumentation, etc.) when deemed necessary. All software modules are graphical as to reveal the true "nature" of any machine kinematics.

These are some of the standard attributes of all InVanse software systems:

Platform Independent
Any PLC
Any Sensor
Any Supplier

Highly Scalable
Server PC
Add-on Coprocessor PC's

Centralized Monitoring
Centers of Expertise

Uses Existing Infrastructure
No Resource Overload

Unlimited User License
Every Employee
Every Corporate Level

Ready Interfaces
Helm Tonnage Monitoring
Schmalz Vacuum Control
Wintriss Press Monitoring
Et al.

Recipe Based SPC
Detailed Graphical Statistics
Recipe Correlations

Real-time & Historical
Everything in Real-Time
Everything Stored Permanently

Any Network
EtherNet/IP • PROFINET
Ethernet TCP/IP • MODBUS
ControlNet • MelsecNet
DH+ • RS232/422/485

Any PLC
Minimal Logic
Minimal Memory
Minimal Network Bandwidth

Battery Powered Wireless IIoT
Banner
KCF
Siemens
Et al.

Hardwired Sensors
Rockwell Conditions Monitoring

Remotely Managed
Private Cloud
VPN

Inherently Secure
Unhackable Network Interface

Full Diagnostics
Infrastructure

LEAN Support
Manufacturing
Maintenance

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