



***IAC SMART PLANT™
Remote Monitoring System***

IAC Smart Plant

Cloud-based Turnkey Remote Monitoring IoT Platform



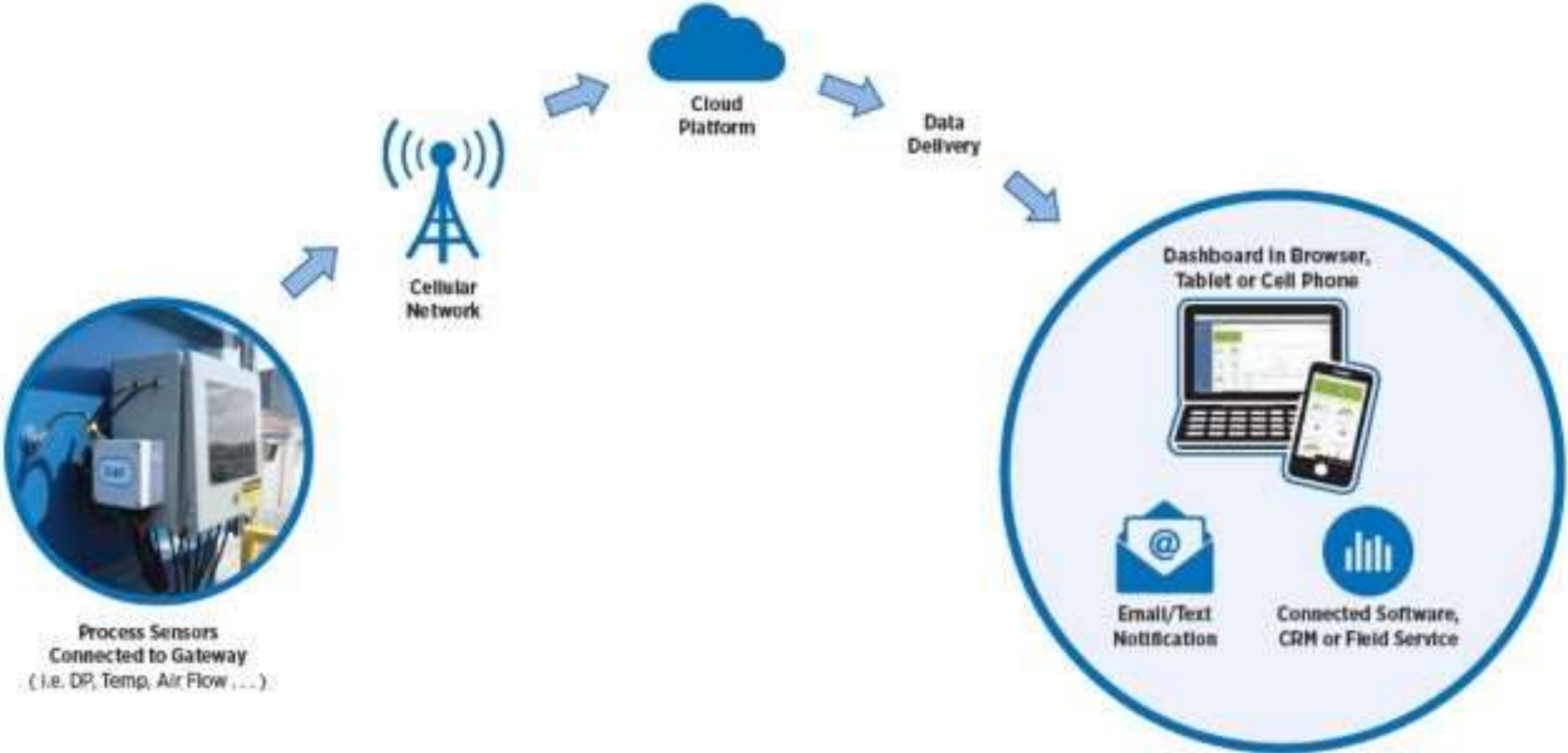
Cost Effective Smart Monitoring for Optimized Performance and Preventative Maintenance

- Access important plantwide data via cell phone, tablet, or laptop - anywhere, anytime
- Obtain real time E-mail & Text alerts for actionable planning
- Predict upset conditions in a timely manner
- Reduce unexpected downtime
- Assure optimized equipment & process performance
- Intuitive, easy-access dashboard for timely operations insight
- Review historical trends & alarms for preventative maintenance
- Receive periodic detailed reports
- Integrate seamlessly & independently from plant network
- Reduce travel expenses
- Reduce emissions and employee exposure



How It Works

Turn-Key IoT Platform



How It Works


- SECURITY & ISOLATION Data is transmitted over secure cellular networks with end-to-end encryption. Fully isolated and independent of plant networks
- Reduce Downtime and parts Expenses with 24/7 remote monitoring
- View world-wide plant data When & Where you need it
- Provide intuitive, easy-access dashboard for timely Operations Insight
- Easily Access via cell phone, tablet or laptop important facility information
- Obtain real time Email & Text alerts for actionable planning



Real Time Multi-Location Monitoring

All Ventilation equipment/Monitoring in one Cloud location

Device Locations



Alerts

Level	State	Device	Subject	Message	Occurred At
CRITICAL	NEW	Demo Gateway IAC	I/O Header Pressure	Limit: 90 Value: 85.08 Logic: 0 Severity: critical AckRequiredToClear: true	07-28-20 23:36

Device Table

Name	Tag	Model	Gateway Id	Device Id	Group	Path
Demo Dryer IAC	Demo	GX-GW2-RS-000A-A1-P15-I	DEMO-Dryer-IAC-ID	5f1f1e72472cbe0064b0801	Demo	IAC/Corporate Group/Demo
Demo Gateway IAC	Demo	GX-GW2-RS-000A-A1-P15-I	DEMO-Gateway-IAC-ID	50c967ea820439000641a00	Demo	IAC/Corporate Group/Demo

Smart Plant Benefits

- **Filter Leak Detection**
 - Help assure EPA environmental compliance
 - Integrate a particulate monitor for preventative maintenance
 - OSHA benefits for employees and neighbors
- **Solenoid Failure**
 - Quick failed solenoid diagnosis by row
 - Assure dust collector is operating most efficiently
- **Compressed air leaks/Energy management**
 - Integrate a compressed air sensor to detect air leaks
 - Detect leaking diaphragm valves & assure optimized filtration
 - Reduce energy costs & obtain energy rebates

Smart Plant Benefits

Return on Investment: **CAN PAY FOR ITSELF IN WEEKS**

- Reduce unexpected downtime \$\$\$\$\$
- Compressed air (leaks/failed valves) \$\$
- Increased Filter Life/Reduced Labor Cost \$\$\$
- Reduce manual reporting/inspections and accuracy \$\$
- Quicker service reaction time \$\$\$
- Reduced Travel Expenses (more remote gathering and troubleshooting) \$\$
- Reduced Emissions / Exposure \$\$\$\$

Smart Plant Benefits

- Review historical trends & alarms for Preventative-Maintenance
- Predict upset conditions in a timely manner.
- Identifying emissions concerns prior to fouling the HEPA/Safety Filters (Approx. \$3K savings on just one set alone)
- Receive periodic detailed reports Conveniently & easily export data
- Assure Optimized Equipment & process performance
- Integrate Seamlessly & independently from plant network
- Access to site and corporate personnel when needed
- Offer Value & Simplicity with an End-to-End turn-key proven solution!

Smart Plant Benefits

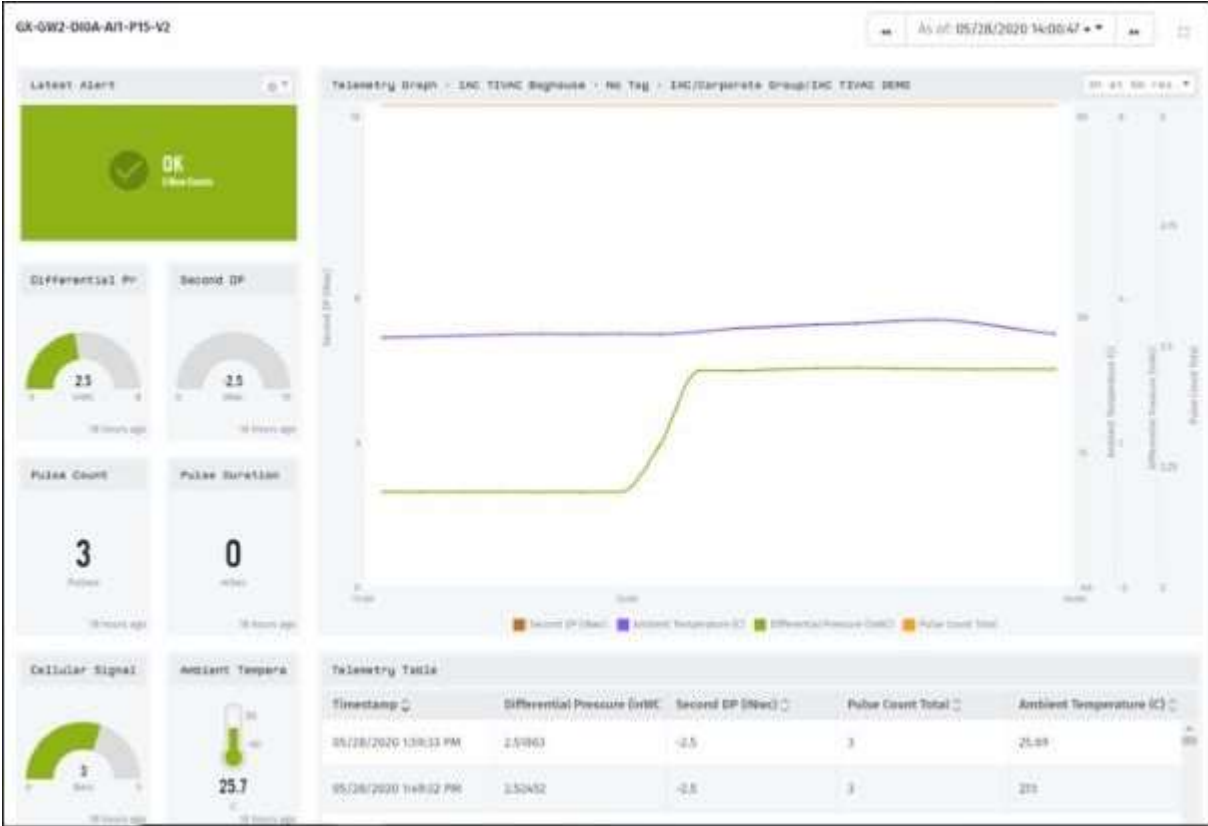
- View Remote Processes Anywhere
- Reduce Manual Inspections
- Preventative Email & Text Alerts
- Reduce unscheduled downtime
- Enhanced Troubleshooting
- Coordinate Field Personnel
- Reduce travel Expenses
- Reduced Emissions/Employee Exposure

Sample Screen



Sample Screen

- Current Process Conditions
- High Alerts
- Historical Trending
- Download to .CSV file
- Unlimited Users/Access



Real Example

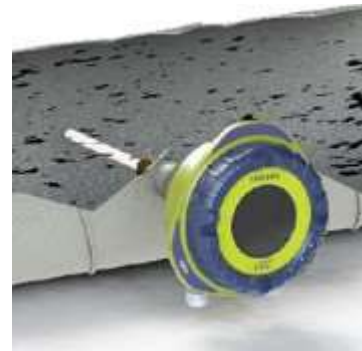
Low Header pressure alarm recorded. Smart plant system identified failed Diaphragm valves. Approx. \$1/Min in compressed air cost per minute when stuck open, while increasing wear and tear while not cleaning filters over that time frame.



Versatility

Remote Monitoring examples:

- Baghouse Differential Pressure
- Pulse Counter
- Compressed air pressure (low)
- Broken bag detector
- Thermocouples/Vibration Sensor
- Level indicators
- Air Flow



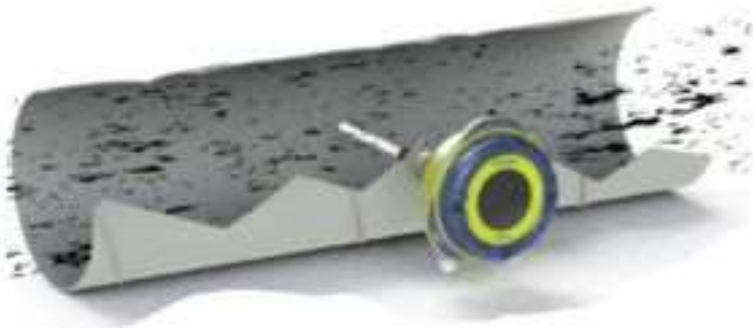
Any Relay, 4-20mA, or Modbus value

- Fan amps and vibration sensors
- Bearing temperatures
- Flow meters
- Pressure Transmitters
- Humidity Sensors
- Remote monitoring locations
- Continuous emission monitors

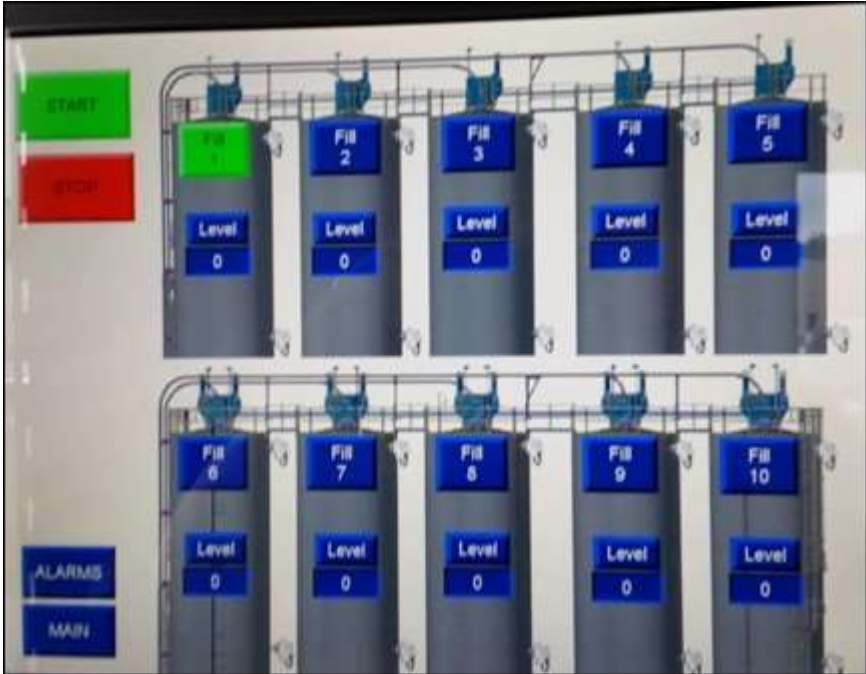


Broken Bag Detector Instrument Overview

- Low maintenance and robust real-time dust monitoring
- Measures directly from duct, No sample handling required
- Easy start-up and commissioning
- Measuring Principle: Inductive Electrification
- IP 66 enclosure for industrial environments
- Fast response to changes in process conditions



Smart Plant – Silo Management





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