

# Lummus Air Monitor System

## What is Air Monitoring?

Whether old or new, cotton gins rely heavily on pneumatic conveying for materials handling, be it seed cotton, trash, lint cotton, or cottonseed. And probably 75% of operational issues within ginning facilities can typically be traced to air issues (incorrect flowrate, improper conveying velocities, excessive/inadequate static pressure, a many more). Air is a mystery to so many in the industry – and it doesn't have to be. The Lummus Air Monitor System offers multiple options for monitoring and analyzing airflows through the gin plant. Using the latest digital technology, this system provides a wealth of information that gives early warning to potential problems before they escalate. This not only can reduce/eliminate downtime, but it can also reduce the likelihood of collateral secondary machinery damage.

## Benefits:

- Continually monitors pressures and pressure drops in numerous locations.
- Helps alert personnel to issues early – allowing the problem to be addressed before it gets worse.
- Reduces downtime due to airflow problems, which can also result in machinery damage.
- Improves operational efficiency, since improper air system performance can be corrected sooner than later.
- Creates a safer work environment – many injuries occur when reacting to an unplanned downtime event.

## Features:

- System offers air monitoring for locations throughout the gin:
  - Seed Cotton or Trash conveying lines
  - Gin Hood (short flue)
  - Air-Type/Centrifugal Lint Cleaner (Super-Jet®)
  - Saw-Type Lint Cleaners (Sentinel™ or conventional)
  - Lint Flue
  - Battery Condenser
- Monitors whenever the gin plant is in operation.
- Can be installed in gin plant (Lummus or non-Lummus)
- System is modular and can be augmented with more monitoring points at any time.
- Remote Capability Option (upgrade) of specific configurations can allow for machinery control to maintain specific pressure drops across a range of ginning rates (for example, varying Battery Condenser drum speed to maintain batt thickness).
- Digital Gauges feature state-of-the-art technology, replacing old analog pressure gauges that are not as reliable and accurate.
- System can be integrated with the entire family of Lummus Controls, offering a myriad of processing options and capabilities.



Air Monitor System for Saw-Type Lint Cleaner



Air Monitor System for Seed Cotton Conveying Pipe



Air Monitor System for Gin Hood and Super-Jet®



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