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systems & automation specialists

Fan Control System



Comco has created a cost-effective automated system to regulate the operation of fans used to secure the tarp on outdoor temporary grain storage piles.

System Highlights

- Prevents tarps from being lifted or displaced in the wind.
- Provides significant energy savings
- Reduces grain shrinkage
- Prevents over-drying single spots
- Monitors wind conditions and automatically adjustrs the number of fans running based on the wind speed

Features

- Automatically rotates fans to avoid over drying in single areas
- Variable speeds for fans based on wind to keep tarp in place
- Remote Monitoring and Control - touchscreen with built in web server
- Stand-alone system

Functionality | Runs in 3 Modes

STORAGE MODE (Tarp Maintenance)

- The system shall automatically activate fans based on wind speed to maintain tarp inflation.
- The number of active fans shall be proportional to the measured wind speed.
- The system shall allow configuration of wind speed thresholds for each fan activation stage.
- The system shall deactivate fans as wind speed decreases, following the configured thresholds.

CONDITION GRAIN MODE (Drying/Cooling)

- The system shall activate all configured fans simultaneously upon initiation of Condition Grain Mode.
- The system shall operate fans for a pre-set, configurable duration/time (set via HMI).
- Upon completion of the pre-set duration, the system shall automatically transition to Storage Mode.

MANUAL MODE

- The HMI shall provide individual start/stop control for each configured fan.

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