



K2 Data Systems, Inc.



Case Study

Packaging Operational Data

Plant-Floor to Front-Office

Industry: Food Manufacturing (cheese)

Software: Rockwell ControlLogix and xCoupler, Mettler-Toledo and Thermo Ramsey Scales, Wonderware Historian, Microsoft SQL Server

Description: A food manufacturer lacked visibility into its packaging lines in regards to accuracy and efficiency. The cost of overweight packages was significant and underweight packages presented a liability. K2 was hired to develop and implement a system that ensured plant-floor accuracy and front-office analysis.



Project: ControlLogix code was designed and written to ensure rapid data acquisition for 7 scales across 3 packaging lines. Since data inputs were too rapid for standard database storage, weights and associated information were queued up in the PLC, than stored in Wonderware's Historian via Rockwell's xCoupler module. A statistical algorithm was written in SQL Server to analyze weights, rejects, and acceptable limits to produce a detailed report. Data can be sliced by many parameters, including line, product, and shift. The analysis will be used to minimize both over and under-weight packages.










Specialties

- Manufacturing Intelligence
- Reporting Systems
- HMI's
- Control Systems

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