

Micro Motion® Integrated Transmitter and Applications Platform Increase Accuracy and Reduce Costs

RESULTS

- Produced accurate product within specification
- Reduced batch time by approximately 20 minutes
- Reduced maintenance and waste disposal costs \$55,000 per year
- Simplified installation and lowered wiring costs



APPLICATION

A manufacturing company mixes anhydrous HCl with other raw materials to make an end product. The quantity of HCl that was added to the batches was monitored with load cells.

CHALLENGE

The load cells were extremely sensitive to plant and process vibration, as well as temperature and pressure fluctuations. Inaccurate measurements caused by the high-vibration environment created product that was out of specification.

Therefore, the company was considering an alternative because the inaccurate load cell measurements negatively affected the product and the bottom line. They decreased the quality of the end product and increased batch time, maintenance costs due to frequent calibration, and waste management costs because inaccurate batches required disposal.

SOLUTION

The manufacturer selected Micro Motion® Coriolis flowmeters with integrated transmitter/batch controllers to replace the load cell system. Coriolis flowmeters are immune to plant vibrations, and they are unaffected by changes in temperature and pressure.

Unlike load cells, Micro Motion meters aren't affected by vibration, temperature, or pressure changes.

www.micromotion.com



For more information:
www.EmersonProcess.com/solutions/chemical
www.micromotion.com



The Micro Motion integrated transmitter and applications platform precisely controls batching operations and provides real-time flow monitoring.

The system's high accuracy and on-line functionality have improved product quality and reduced batch time, maintenance and waste disposal costs.

Finally, since both components are located in the same unit, the installation was simplified due to fewer wiring connections.

