

**Case Study: Honeywell XYR5000 Wireless Transmitters**

**Application: Real-Time Remote Tank Level Monitoring  
Chemical Distributor**



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**Problem** Our customer needed the ability to monitor tank level on a real-time basis instead of doing manual dip-stick monitoring during each of three daily shifts. The customer cited safety issues and the high costs of human error and inaccurate reporting as their reasons for changing monitoring methods.

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**Current Business Result** The customer has several chemical tanks a significant distance from the control room. Operators would manually measure tank level with dip-sticks. They'd then report back to purchasing. Purchasing, in turn, would contact the chemical supplier, who would send a truck to fill the tanks to capacity.

If the operator inverted a number in the reporting paperwork, put the data in the wrong field, or reported the wrong tank number, it increased the possibility of spills.

A short reading on a tank could result in an unnecessary delivery, and subsequent spillage of chemical product. An overestimated reading could mean the customer didn't really have the inventory to supply to end users.

While inventory control and material delivery caused customer relations problems with their end users, the bigger and more expensive problem was the spillage.

Cleanup from a chemical spill ranges from \$5,000 to \$6,000 per incident. Plus, the customer had to file a report with the EPA.

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**Solution** The customer installed Honeywell XYR5000 wireless transmitters to monitor storage tank levels on a continuous basis. The data is recorded on a Honeywell Trendview paperless recorder. High limit alarms on the Trendview initiate audible alarms when there's danger of overfilling, thus reducing the possibility of chemical spills.

Operators can use the Trendview's web interface and standard browser software to monitor inventory levels on a real-time basis. The web server in the Trendview has also been tied into the company's network, so inventory monitoring is available to purchasing and accounting departments as well, making their jobs easier.

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**Customer Comment** **We wanted to eliminate the costs and constant safety issues associated with spills. The Honeywell solution has allowed us to do just that.**