

Case Study

Reliance Industries Improve Data Accuracy with Honeywell's OneWireless Solution



“Since implementing Honeywell's OneWireless, tank data is reliable and available in real time – saving substantial time and money for Reliance.”

Mahendra Upadhyay, Instrumentation Manager, Reliance Industries

Benefits

With a large processing plant that is spread across a wide area, Reliance Industries was experiencing challenges with obtaining reliable tank level and temperature readings at its olefins plant in Gujarat, India. As the largest private sector company in India, Reliance recognized the business potential of moving to a wireless monitoring system. The issue stemmed from tapping transmitter signals of tank levels and temperatures from some of the farthest crude spheres in the petrochemical complex. The existing wired application was remotely located and required continuous troubleshooting and maintenance.

Reliance implemented Honeywell's OneWireless™ solutions at the Gujarat refinery to gain control of data, streamline tasks and improve overall efficiency. Benefits from implementing OneWireless include:

- Improved employee safety by eliminating manual level monitoring
- Avoided prohibitive wiring costs and reduced installation, operational and maintenance costs
- Increased reliability and data accuracy, helping to meet and maintain regulatory compliance
- Improved production efficiency through more accurate data
- Improved quality of data to enable better decision making
- Reduced maintenance requirements compared to wired transmitter alternative



Reliance Industries achieves reliable and real-time tank data with Honeywell's OneWireless solution.

Background

The Reliance Group is India's largest private sector enterprise with businesses in the energy and materials value chain. Annual revenues are in excess of US \$34 billion. The flagship company, Reliance Industries Limited, is a Fortune Global 500 company.

The Reliance Group's activities span exploration and production of oil and gas, petroleum refining and marketing, petrochemicals, polyester, fiber intermediates, plastics and chemicals, textiles, retail and special economic zones.

Challenge

At the Reliance Industries Baroda Gujarat olefins plant, the company struggled with access and reliability of tank level and temperature readings.

Wiring for the system was expensive and undependable. Although the existing application was considered to be a single loop, it required continuous monitoring by the instrumentation department.

Solution

Reliance Industries evaluated several vendors for a wireless monitoring application. The company was pleased with the results from its Honeywell distributed control system (DCS), so Reliance naturally considered Honeywell's wireless monitoring solution.

"Given Honeywell's proven track record with our company, we made the decision to go with OneWireless for our wireless monitoring needs," said Mahendra Upadhyay, Instrumentation Manager, Baroda GOP Plant, Reliance Industries.

The Honeywell OneWireless network is an industrial wireless mesh network that extends the process control network into the field to deliver applications that improve efficiency, reliability and safety. The wireless mesh network is formed with industrial wireless nodes, called multinodes that self-discover to create an industrial mesh network within seconds.

Reliance Industries installed Honeywell's XYR 6000 wireless transmitters. By tapping the transmitters' signals of temperature and level from the remotely located spheres, Reliance Industries saved cable, labor and maintenance costs. Monitoring and controlling tank liquid volume helps ensure data accuracy used for planning and scheduling and for financial statements.

Inaccurate measurements resulted in suboptimal capacity usage and potential accounting errors. Now, the company is confident in tank measurements and the need for continuous monitoring and rechecks has been eliminated. The data is reliable and available in real time, saving time and money.

For More Information

To learn more about how Honeywell's OneWireless solutions, visit our website www.honeywellprocess.com or contact your Honeywell account manager.

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The efficiency of the new wireless system has the company exploring other possible uses. Based on the success of OneWireless, Reliance is considering the solution for its field instrumentation sector.

Commented Upadhyay, "Honeywell OneWireless could really change the way the signals are tapped in the instrumentation sector, specifically from the remote locations. We are very excited about the prospects for using OneWireless throughout our plant."

OneWireless™ is a trademark of Honeywell International Inc.