

Remote Safety Shower Monitoring Using Wireless Transmitters



A chemical manufacturing and refining plant needed to upgrade remote safety shower monitoring systems to comply with regulations. Though the existing shower facilities fall under a grandfather clause and are not subject to more stringent regulations, the customer wanted to ensure personnel safety while reducing the potential for issues that could occur with on-the-job accidents. Honeywell XYR 5000 wireless transmitters provided a reliable and cost-effective solution.

As required by First Alert Response guidelines, a plant operator should be alerted within 5 to 10 seconds after a safety shower is activated. The shower indication also serves to alert plant operations to bigger, potentially more significant problems in the remote areas of the plant.

Many of the plant's remote safety showers were located in explosion-proof areas with no existing wiring. The estimated cost to install wired monitoring at 17 shower sites was \$600,000 for the trenching, resurfacing, cable, and conduit. The customer needed a more cost effective alternative to installing monitoring systems.

Honeywell Solution



Using wireless technology to monitor remote shower usage eliminated the need for Class I, Div 1 instrumentation and the associated wiring and installation costs. The wireless system, using either a target alarm or pressure, alerts the control room immediately, so situation management can be implemented sooner.

The costs to purchase wireless transmitters and install them in 17 shower areas estimated \$20,000. The customer saved \$580,000 installing wireless transmitters, a price that made compliance a far less costly proposition. And, these were so successful; they expanded the installation to another 8 showers.

According to the customer, "We were able to meet requirements in a very short amount of time - and at one-tenth the cost of the other solutions we considered."

Benefits

Honeywell XYR 5000 wireless transmitters remove the barriers to monitoring variables where traditional transmitters are too costly to implement. They're designed for applications with no access to power, hazardous or remote locations, where instrumentation changes are frequent or where manual readings are taken today.



XYR 5000 wireless transmitters reliably and securely transmit up to 2000 feet on a 3-5 year battery life with an accuracy of $\pm 0.1\%$. You'll quickly and safely monitor process areas and assets, while realizing these benefits:

- Reduce installation, maintenance and operating costs
- Improve product quality
- Meet regulatory requirements
- Ensure high uptime
- Enhance flexibility

More Information

For more information on Honeywell's wireless solutions, visit our website www.honeywell.com/ps, or contact your Honeywell account manager.

Automation & Control Solutions

Process Solutions
Honeywell
2500 W. Union Hills Dr.
Phoenix, AZ 85027
Tel: +1-602-313-6665 or 877-466-3993
www.honeywell.com/ps

SO-07-31-ENG
November 2007
© 2007 Honeywell International Inc.

