

## Wireless Level Measurement Solution

*Wireless tank level measurement – No wiring costs*

### Problem: Wireless Level Measurement

Process engineers in a remote finished product tank farm needed level transmitters to measure level in sealed tanks located in a Class I Div 2 environment. The tanks were approximately 40 feet high. A key requirement was that the level signal be sent to a central control station without installation of phone lines or expensive communications wiring. The approximate distance the level measurements had to be sent was 2000 feet. The engineers were concerned that signal wiring for the new level transmitters they had just purchased would greatly exceed the cost of the level transmitters themselves. Discussions with transmitter vendors stressed the tight budgetary constraints established for the project.

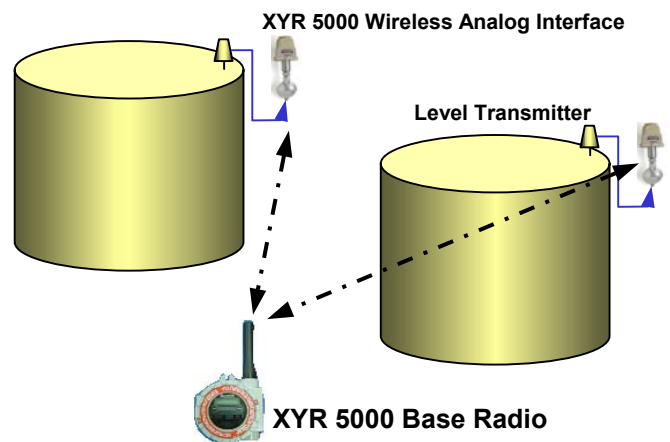
### Solution: Economical Honeywell Wireless Communications

Process engineers were convinced that the new Honeywell XYR 5000 Wireless Analog Interface met all the technical requirements to provide wireless capabilities to their level transmitters while fitting neatly within the budgetary limits. The Honeywell XYR 5000 Wireless Analog Interface provides a reliable level signal without the need of costly field and tray wiring.

The decision to use Honeywell Wireless Transmitters was a natural one from the standpoint of performance and economy. Key reasons for the choice of XYR 5000 were:

- Operating savings of \$30 per foot in wiring installation. With 5 tanks requiring wiring to the base station, savings of up to 2000ft x 5 tanks x \$30 = \$300,000 were possible
- Reliable and secure performance using Frequency Hopping Spread Spectrum (FHSS) and encryption technology.

- Easy configuration using local integral buttons.
- Self test capability with failsafe diagnostics.
- Powered by C size 3.6 VDC Lithium battery with expected life of up to 5 years.
- **0.1 % accuracy** suited for most industrial applications



**Honeywell Wireless Tank Level Application**

Honeywell not only provides best in class field instruments, but also offers economical yet reliable solutions to meet different application needs and budgetary constraints. This includes pressure, temperature and acoustic measurement using Wireless technology.



**XYR 5000 Wireless Family**



**Honeywell XYR 5000 Wireless Analog Interface**

### **Honeywell Wireless Transmitter Benefits**

Use of Honeywell Wireless Sensors increases profitability in the following ways:

- **Best value** for the dollar with a cost-effective solution.
- **Improved performance** with superior accuracy for remote tank applications.
- **Maintenance cost decreased** through higher reliability and stability with self-diagnostics.

- **Installation cost lowered** as the Honeywell Wireless Sensors can be simply mounted at a high point of the tank with sensors mounted at the high and low positions.
- **Ease of configuration** with integral push buttons and local display.
- **Excellent service** through the extensive Honeywell sales and service network

### **Additional Benefits from Use of the Honeywell Wireless Solution:**

#### **Self-Diagnostics**

- **Low Battery Alarm**– Indicates the need to replace the battery
- **Contains extensive self-checking software** and hardware that continuously monitors the operation. Any sensor or device parameter out of spec is identified and reported

#### **Broad Operating Temperature Range**

- -40 °F to +185 °F (-40 °C to +85 °C)

#### **Rugged Construction**

- 316 L, 316 or 17-4 pH wetted parts
- GE Lexan housing (passes UL 746C “Outdoor Weatherability Specification”).

### **Honeywell Economical Wireless Level Solution Details**

Description	Model
Honeywell Wireless Analog Interface	WG551
Base Radio	WBR-MB, RS



**U.S.A.:** Honeywell Industrial Control, 16404 North Black Canyon Hwy., Phoenix, AZ 85053 • **Canada:** The Honeywell Centre, 155 Gordon Baker Rd., North York, Ontario M2H 3N7 • **Latin America:** Honeywell Inc., 480 Sawgrass Corporate Parkway, Suite 200, Sunrise, Florida 33325 • **Japan:** Honeywell K.K., 14-6 Shibaura 1-chome, Minato-ku, Tokyo, Japan 105-0023 • **Asia:** Honeywell Pte Ltd., Honeywell Building, 17 Changi Business Park Central 1, Singapore 486073, Republic of Singapore • **Pacific Division:** Honeywell Pty Ltd., 5 Thomas Holt Drive, North Ryde NSW Australia 2113 • **Europe and Africa:** Honeywell S. A., Avenue du Bourget 3, 1140 Brussels, Belgium • **Eastern Europe:** Honeywell Praha, s.r.o. Budejovicka 1, 140 21 Prague 4, Czech Republic • **Middle East:** Honeywell Middle East Ltd., Technology Park, Cert Complex, Block Q, Muroor Rd., Abu Dhabi, U.A.E.