

**Case Study: Phoenix Contact Wireless I/O Solutions**

**Application: Cost-Effective, Real-Time Remote Monitoring of Ammonia Analyzers Wastewater Treatment Plant**



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**Problem** Ammonia monitoring is essential to the operation of a wastewater treatment plant. The analyzers are located a half-mile from the control room and were not wired into the control system. Someone periodically drove to each analyzer and called the information back to the control room.

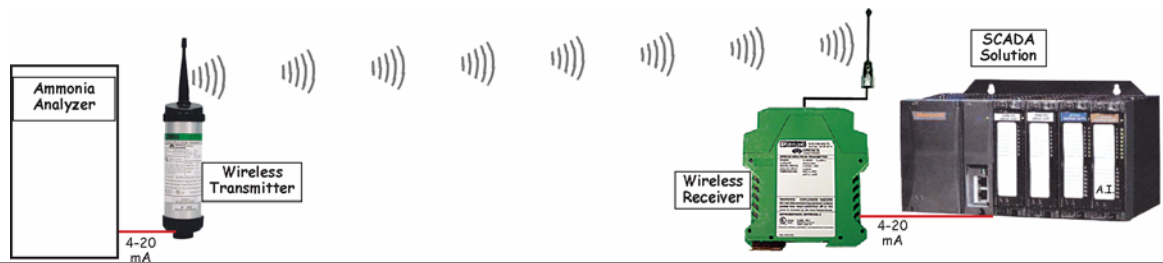
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**Current Business Result** Plant operators would take manual readings of the analyzers and report back to the control room. Because the readings aren't transferred to the control room directly from the analyzer, and require a person to interpret the data, results are open to human error and can be inconsistent.

In their efforts to get real-time data from the analyzers, plant engineers considered several options. But, because the distance from the ammonia analyzers to the control room is a **half-mile or more**, the cost of hard-wiring made the idea impractical.

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**Solution** Using Phoenix Contact wireless transmitters and receivers, the cost of wiring was eliminated, plant operator time was freed up for other tasks, and engineers were able to get real-time data directly from the analyzers.



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**Customer Comment** It's great to have real-time data. That's what we've always wanted.