

Environmental Compliance Simplified with Smart Wireless Solutions

BENEFITS

- Wireless solutions enable easier way to report temperature and pressure measurements associated with combustion engines
- Integration with company's business network allows data to be logged remotely
- Cost-effective solution enables better compliance with local regulations



CHALLENGE

Many midstream gas processing facilities have compressor stations which utilize internal combustion engines that are regulated by local environmental agencies for emissions compliance. They are required to monitor and report the inlet temperature and differential pressure across a catalyst that burns harmful chemicals prior to being released into the air. If they are not compliant with the environmental regulations, they face large fines that can accumulate over time.

SOLUTION

Emerson proposed a Smart Wireless solution to monitor the inlet temperature and differential pressure across the exhaust catalyst. These measurements are made with the Rosemount 648 Wireless Temperature Transmitter and Rosemount 3051S Wireless Pressure Transmitter, which report their measurements every 15 minutes. The customer's engineers decided they could integrate the data with the company's business Ethernet network through the Smart Wireless Gateway. This allowed the company to easily log data remotely.

RESULTS

Emerson provided a reliable and cost-effective wireless solution that reduced the total installed cost, including wiring and labor. In this particular situation, there was a shortage of qualified electricians, so reducing the installation time was a key benefit. By integrating the measurement data into the business Ethernet network, environmental engineers were allowed to pull measurement data from the system to create standard reports for the environmental agency. This reduced the amount of time spent generating the report. Now the environmental engineers can spend more time analyzing the data to predict potential problems, resulting in lower fines and cost-effective compliance with local regulations.