

# API-Cecomps Group *n'fo*

## Technical & Application Note C138

Application: Monitor pressure on a boiler

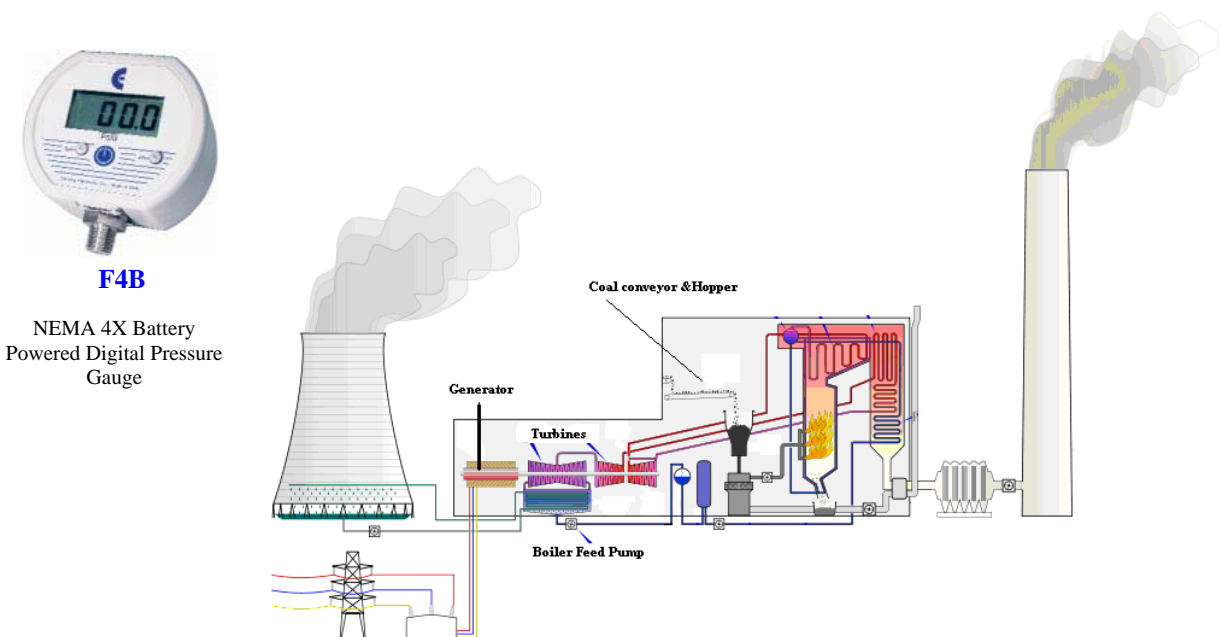
Type Of company: Public Utility - Coal-Fired Power Plant

Location: Missouri

**Problem:** Coal comes into the plant via belt from coal barges and/or the storage coal pile and travels to the boiler. The boiler heats water to create steam that flows into a turbine. At full load, the boilers can burn 380 tons of coal per hour. The turbine turns a shaft. On the end of the shaft is a magnet that revolves inside a coil to create electricity. The customer needs to have an accurate and easy to read visual indication of the pressure on the boiler feed pump.

*Note: for additional information on this process see [http://en.wikipedia.org/wiki/Fossil\\_fuel\\_power\\_plant](http://en.wikipedia.org/wiki/Fossil_fuel_power_plant)*

**Solution:** The customer will use a 0-300psig, nema 4X case, battery powered gauge (F4B) to monitor the pressure on the boiler feed pump.



### **Benefits of API's solution:**

- ±0.25% Test Gauge Accuracy
- Long Battery Life (up to 2500 Hours)
- 0.5" digit height on Display for ease of reading

### **Cecomps Unique Feature**



This NEMA 4X battery powered gauge has a UV stabilized polycarbonate/ABS case with non-interactive zero and span controls. It has an accuracy of  $\pm 0.25\%$  of full scale ( $\pm 1$  least significant digit) with 2500 hours battery life using standard alkaline batteries. The single front button turns gauge on, starts auto shutoff timer, and provides zero (One-Touch Zero) function for gauge reference ranges.

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