CHALLENGE: PUMP PRESSURE BUILD-UP

Aqueous potassium hydroxide (KOH) is the scrubbing agent used at this facility. It is sprayed into the flue using in-duct injection. With the potential risks of clogged injection nozzles and problems with the scrubber impeller assembly, a solution was needed that would provide continuous monitoring as well as alarm/shutdown capabilities at the measurement point. The scrubber systems are remotely located on both the rooftop and within the confines of the plant, requiring immediate action to be taken if a dangerous situation develops in the process.

APPLICATION SUMMARY

Breathing air in a plant is of critical importance and is dependent upon the scrubber system working properly. The plant instrumentation engineer at this research and development facility required a device that was capable of continuously monitoring for gradual build-up of pump pressure, which would indicate clogged injection nozzles or problems with the scrubber impeller assembly.

THE ONE SERIES SOLUTION

One Series model 8W2D45P10 provides a hybrid solution – combining pressure switch and pressure transmitter remote monitoring capabilities – that continuously measure and alarm when a gradual build-up of pressure occurs in the pump. With a 4-20 mA output, the switch function alerts the site utility alarm system if the pressure exceeds the setpoint in this critical air quality application.

8W2D45P10 Features:

- Provides a pressure range of 0 to 140 “wc
- 4-20 mA output for remote monitoring and trending
- Dual switches for local alarm and shutdown
- IAW® self diagnostics

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