



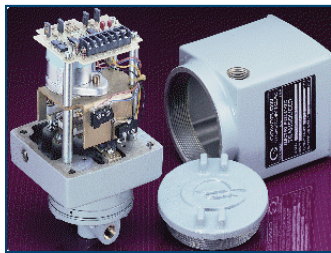
ITT

Conoflow

Transducers and Industry Applications

An ITT Conoflow Transducer Application story

Transducer applications within the power industry are wide and varied. Some of the more predominant applications that are found within this industry are termed as damper, feed pump, cyclone, and generic valve control throughout the plant. In all of these applications transducers can be used to operate valves that control systems.



There are many facets to damper control, but mainly include air intake resulting in mixture and boiler emission or gas flow to stacks (NOX). Damper control in reference to air intake regulates the primary flow of air in the main intakes to control combustion. This in turn controls the flow of gas being distributed to the stack by regulating the amount of cold gas that is pushed to the bottom of the boiler. In

this application the Conoflow GT_6 is the transducer of choice. The GT_6 is a motorized unit with lock or fail in last place in the event of signal termination. In this case we want to regulate the amount of hot gas pushed higher and out the stack so to maintain the best heat rate which equates to efficiency.

In older coal fired power plants, there are also valves that control the coal and air mix to the cyclones that result in the most efficient fuel to air ratio for the best heat rate and lowest emissions possible for the current electrical load. This is termed as the secondary air control or air to coal mixture.

Another important application within the power industry is feed pump control. In this application, a transducer would be used to control the flow of steam going to a feed pump turbine that varies the flow of water to the boiler.

The aforementioned applications are all considered to be critical control within a power plant.

The Conoflow GT210 series would be a good transducer of choice for feed pump or cyclone control due to its acceptance of higher supply pressure resulting in higher flow rates that would equate to faster response time.



ITT Conoflow also manufactures a variety of other transducers, both I/P, E/P and P/I in addition to an IEEE qualified transducer and filter regulator for the Nuclear Power Industry. Add this to a complete standard line of both high/low pressure regulators in addition to relays and diaphragm seals and ITT definitely stands out as one of the foremost pneumatic suppliers to the power industry.



Engineered for life

For more information, please visit www.conoflow.com