



- Rotating equipment
- Pumps and compressors
- Wastewater Treatment
- Fluid Power
- Lubrication Oil Monitoring
- Power Plant Upgrade
- Emergency Alarm and Shutdown
- Safety Instrumented Systems (SIS)



**PRESSURE
TEMPERATURE
DIFFERENTIAL PRESSURE**

ONE SERIES Success Story: Natural Draft Utility Heater [Oil Heater Upgrade]

Dual 24" Fire Tube - 2008

Customer Problem:

- The heater was only achieving 64% combustion efficiency and having difficulty maintaining process temperature
- Two fire tubes were estimated to have approximately 3.5 million BTU/hour each
- An upgrade cost of \$32,000 was needed, and the ONE SERIES programmable temperature controls were a critical component

ONE SERIES solution:

- The 8W ONE SERIES maintained a process temperature of 272 degrees C with only one fire tube running at 68% combustion efficiency
- Two independent solid state relays allow for separation of the control points and precise settings for each deadband - eliminating previous process temperature overshoot and undershoot issues
- 4-20 mA auxiliary output is included, which can be tied into a PLC/DCS as a trending and monitoring function
- The second fire tube has a live pilot that will turn on if the process temperature drops below 267 degrees C
- The total volume of air is now being heated by one fire tube and is approximately 105000 SCF/hour (this reduction in air volume translates to more heat into the process and less into the atmosphere)
- \$574/day is being saved in fuel costs
- **The efficiency gains will pay for the upgrade in as little as two months!**

For more information about how the ONE SERIES can benefit your application, visit www.ueonline.com.

