



POWER INDUSTRY **SOLUTIONS**

Thermocouples and RTDs manufactured by Applied Sensor Technologies have been supporting the operations of the Power Industry for many years. If you look around, you might find us monitoring the temperature of your turbine exhaust, or controlling the heater on your precipitator hopper, or providing input to your natural gas flow computer, or monitoring the heat in your HRSG or boiler tubes.



THERMOCOUPLES

From the bearings to the boiler, thermocouples and RTDs manufactured by Applied Sensor Technologies are designed for reliability and durability, and are proven in the field. We have designed sensors for your gas turbine exhaust and your heat tracing system, for the gas flow computers you rely upon and the cooling water outflow. Our philosophy is not only one of *Lean Manufacturing*, but also of *Lean Enterprise* – we strive to provide the maximum value to the customer in everything we do.

THERMOWELLS

We provide a wide range of thermowell designs, in many different materials, for applications from the natural gas supply lines to the HRSG. From threaded wells for the water treatment equipment, to flanged wells, socket-weld and weld-in styles in a variety of carbon steels, stainless steels and high-nickel alloys. We also supply special protection tube designs for applications such as bag houses and precipitators, where fast response is required in an abrasive environment.

APPLICATIONS

- Boiler tube temperature
- HRSG efficiency
- Gas turbine exhaust gas
- Heat tracing monitoring
- Ash hopper heater control
- Bag house and precipitator monitoring
- Gas flow computer temperature input
- Cooling water monitoring
- Bearing temperature
- Stack emissions monitoring



TRANSMITTERS

In many applications, it is not feasible to wire a temperature sensor directly into the control system, due to distance or signal quality. One of our temperature transmitters is an ideal choice to convert the sensor's output signal to a reliable 4-20 mA or HART® protocol. Designed to fit into one of the many terminal head variations that we offer, our UNI5 transmitter line offers reliability and value.

THE SENSOR BOX™

A flexible, cost-effective program designed for the specific applications in your plant, the Sensor Box™ contains parts that allow you to put together a wide variety of assemblies. If a temperature sensor fails in the field, rather than go into "emergency mode" to buy a new one, just get out your Sensor Box™ and assemble a replacement! Useful not only for emergency situations, it has also proven to be effective during outages, where timing is critical and requirements may not be known until the last minute.

CUSTOM SOLUTIONS

Applied Sensor Technologies offers a wide variety of standard assemblies that meet most applications, but we also understand that some needs are unique. Give us a call if you have a challenge, or can't find exactly what you're looking for – chances are we can come up with the perfect sensor for you.

THE SENSOR BOX™

Rapid – Get back up and running in minutes

Flexible – Stock only the parts your plant uses

Easy – Only three steps to replace a sensor



ASSEMBLIES – HRSG AND OTHERS

Wide variety of terminal heads and configurations

Thermowell designs in carbon and stainless steels, and nickel alloys

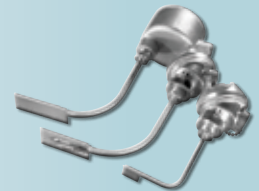
4-20 mA and HART® protocol outputs available



RTD – HEAT TRACING/HOPPER HEATERS

Heat transfer pad for welding or strapping

Replace an RTD without disturbing the insulation



RTD – GAS FLOW COMPUTER INPUT

Rugged design specific for pipe insertion

Weatherproof, stainless armored cable



THERMOCOUPLE – BOILER TUBE

Sheaths in 316 stainless, 310 stainless and Inconel

Weld pads and expansion loops per the application

Transition using a terminal head, junction box or armored cable



THERMOCOUPLES – TURBINE EXHAUST

Special designs for a wide range of gas and steam turbines



PROTECTION TUBE – BAG HOUSE

Fast response with maximum protection from abrasion

Seamless tubes in 446 stainless or other materials

