

A MODULAR TEMPERATURE SENSOR ASSEMBLY SYSTEM FOR THE INSTRUMENTATION MAINTENANCE PROFESSIONAL



BENEFITS:

- Improved process uptime
- Reduced expediting & related costs
- Fewer emergency orders
- Lower inventory





YOU HAVE A PROBLEM...

3:00 PM on a Friday afternoon, and you've just discovered a temperature sensor has failed in an important process. The Safety Engineer wants the process shut down, but you're under pressure to keep production moving. You're going to spend the rest of the afternoon in "Panic Mode," calling every sensor supplier you can think of, begging for the best delivery at a premium. Not very pretty . . .

If this sounds familiar, then the SENSOR BOX™ was developed to help improve your life.

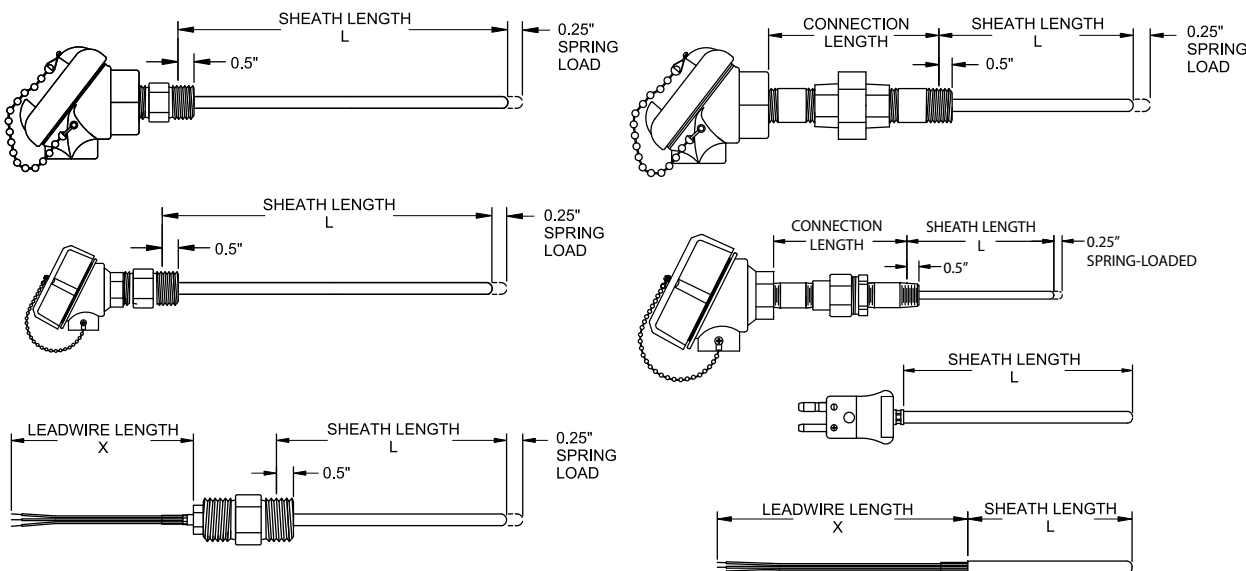
Maintenance or instrument technicians can now build a new temperature sensor assembly, install it and the plant can be back up and running in minutes rather than days! The SENSOR BOX™ is designed for any plant where temperature sensors are an important part of the operation, and downtime is not an option.

WE CAN HELP

The SENSOR BOX™ is a rugged toolbox containing all of the parts and tools to quickly and easily build the sensor you urgently need. It is:

- **Flexible** - adaptable to most process plants:
 - Power
 - Chemical
 - Pharmaceuticals, Food and Dairy
 - Offshore Oil Production
- **Comprehensive** - It can include a variety of sensor types and hardware of your choice.
- **Self-contained** - Everything you need to build the right product is at your fingertips.
- **Industrial** - The toolbox and tools are rugged, designed for hard duty.
- **Easy to use** - Complete, easy to follow instructions are included.

By combining common parts, a relatively small amount of stock can translate into the variety you need – quickly, and without expediting. What can you build with the basic kit, and a few options? **Here are some of the assemblies that can be made with THE SENSOR BOX™:**



HOW WE DO IT

One of the challenges in maintaining industrial temperature sensors is the variety. It is difficult for the typical process plant to stock every sensor configuration they might need to replace— until now.

The SENSOR BOX™ can be your solution to expediting, high inventory and expensive downtime. It is a modular system, consisting of:

- Sensor elements (we call them “pods”) - the sensor itself, with leadwire
- Housings - add to the sensor element for protection and mounting
- Hardware - components for spring-loading, heads, unions, etc.
- Tools - everything you need for building assemblies



PARTS IN THE BASIC SENSOR BOX™

- Tools: special crimper, tubing cutter, screwdriver, wire stripper, tape measure
- (6) spring-loaded kits, with bushings
- (6) stainless steel sensor housings, 0.250" OD x 24" long
- (6) sensor pods, your choice of J, K, E or T thermocouples or 100 ohm RTDs
- (6) carbon steel nipples, 1/2" NPT
- (3) carbon steel unions, 1/2" NPT
- (3) terminal blocks, ceramic, 4 posts with mounting screws
- (3) NEMA 4 terminal heads, aluminum, with screw cover and chain
- A rugged toolbox to hold it all!

HOW DO YOU BUILD ONE?

It's easy as 1-2-3!

1. Determine the dimensions and type of sensor you need
2. Open your SENSOR BOX™ and take out the parts and tools you'll need
3. Measure, cut, crimp and assemble. Install it!

Appplied Sensor Technologies, a division of United Electric Controls, is a major manufacturer of thermocouple, RTD, thermistor and other temperature sensor assemblies. ISO 9001:2000 certified and a leading practitioner of JIT and Lean Manufacturing methods, Applied Sensor Technologies has expertise in a wide variety of process applications, from the blast furnace to the blast freezer; from chemical processing to food processing. Please visit our website: www.appliedsensortech.com, or give us a call at 617-923-6966!

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