

# Custom CEMS and Analyzer Bundles

## TubeTrace® Heated Instrument Tubing and Non-Heated Tubing Bundles

Your CEMS and Analyzer sample lines will be cost-effective and reliable with Thermon. Thermon's flexible manufacturing process can include auxiliary conductors, non-heated tubes, factory installed temperature sensors, a variety of heat tracing options, special markings and identification as required.

### Tube Materials and Finishes

- 316 and 304 stainless, welded or seamless, Monel, titanium, Alloy 825, and Alloy 20 are readily available.
- Optional Electropolished (EP) finishes and chemical passivation (CP), (including SilcoSteel, Siltek/Sulfinert and SilcoNert coatings)<sup>1</sup> are also available.
- Double containment tubing and/or multiple tube materials can be provided in a common bundle.
- Fluoropolymer tubing (including PFA, TFE, and FEP), nylon, polyethylene, composite filament-wound tubing and most any other tubing material is also available.

### Electrically Heated TubeTrace®

- Thermon electrical heat tracing is approved for hazardous (classified) locations, including options for Class I, Division 1 (NEC/CEC) and Zone 1 (IEC).
- SX self-regulating and HPT™ power-limiting heat tracing can be "cut-to-length" in the field maintaining temperatures up to 350°F (177°C).
- Freeze protect high temperature steam samples up to 1100°F (593°C) with cut-to-length TubeTrace bundles.

### Embedded Temperature Sensors

To accurately sense temperatures in one or more locations, factory installed temperature sensors (RTD, Thermocouple, or Thermistor) with insulated leads rated 500°F (260°C) are available.

### Control and Monitoring

To accurately control temperatures for sensitive analytical applications, consider Thermon's TC control and monitoring systems. Utilizing 3-wire RTD temperature sensors, TC-systems are available with single-point or multi-circuit configurations, that provide monitoring for temperature and electrical current, including ground leakage protection as required by code.

Non-insulated and non-heated tubing bundles are available where process samples are not temperature sensitive. For non-heated lines, consider ThermoTube™ pre-insulated tubing or NI non-insulated instrument tubing bundles.

### Note:

1. Silcosteel, Siltek and Sulfinert are tradenames of Restek Performance Coatings. SilcoNert is a tradename of SilcoTek.



**The Heat Tracing Specialists®**

100 Thermon Dr. • PO Box 609 • San Marcos, TX 78667-0609  
Phone: 512-396-5801 • Facsimile: 512-396-3627 • **1-800-820-HEAT**  
[www.thermon.com](http://www.thermon.com)

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