



# **TubeTrace® ...Heat Traced and Insulated Tubing Analyzer Umbilical “QuickQuote” Design Data**

26 November 2007

Contact Information: _____ email address: _____ Phone: _____ Company & Location: _____
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**Notes:** Include all units of measure as required.  
Consider a separate “QuickQuote” form for each separate bundle.

### **Temperature Data** (Please indicate °F or °C):

1. Maintain temperature (of the sample tube(s)):
2. Minimum ambient temperature (assumes outdoors with wind):
3. Maximum ambient temperature:
4. Maximum sample or tubing limit (If applicable):
5. Maximum exposure temperature (process upset, steam-out, etc.)

### **Tubing Data** (Indicate SI or metric units):

1. Total length from the sample probe to the analyzer?
2. How many transport tube(s) are required? (Include sample, calibration, purge, and/or spare tubes. Indicate which are to be heated.):
3. Size and wall thickness of each tube. (Indicate for every sample, calibration, purge, and/or spare tube(s)):
4. Tubing material(s). (On metallic tubing, include special finishes or plating requirements. Please be as specific as possible for all sample, calibration, purge, and/or spare tube(s)):

### **Electrical Requirements** (if electrically heated):

1. Available Voltage (Vac):
2. Area Classification [Non-hazardous or Hazardous (Classified) with specific ratings and approvals required]:
3. Preferred electrical heat tracing type (i.e. self-regulating, power-limiting, constant watt, etc.)

### **Auxiliary Conductors/Wires and/or Temperature Sensors**

1. Is a sample line temperature sensor required in the bundle? [Indicate type (RTD, Type K or Type J thermocouple, etc.), location, and lead length.]
2. Are auxiliary power wires to be provided in the bundle?
  - a. How many?
  - b. What type? (Indicate conductor size(s), dielectric insulation requirements, and if grounding is required for each or all.)
3. Are auxiliary instrument or signal wires to be provided in the bundle?
  - a. How many?
  - b. What type? (Indicate conductor size(s) and if shielding is required)

Email to [sales@thermon.com](mailto:sales@thermon.com) , visit us on the web at [www.thermon.com](http://www.thermon.com),  
or call 1-512-396-5801

### **Accessories Requirements** (Contact Thermon for other options):

1. Bulkhead entry fitting (for bundle to enter an enclosure or shelter)
2. Electrical terminations and accessories for electrical heat tracing or other.
3. Temperature controls and/or monitoring system requirements?
4. Temperature sensor(s) installed in the bundle at the factory?