

Question: Is there an easy to use, low cost, accurate thermometer?

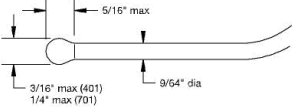
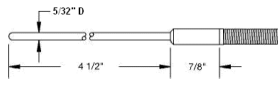
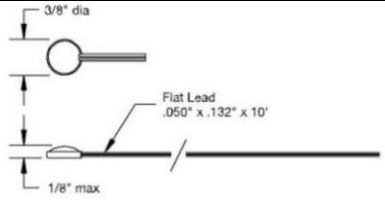
Answer: Coupling a thermistor sensor with a Doric 450TH makes a versatile, accurate thermometer for general medical, industrial and laboratory use. The measurement is speced over the entire temperature range of the probe from 0°C to 70°C (32°F to 158°F). This range covers many of the required day to day temperature measurements in medicine and laboratories. Wider range probes are available to cover -25°C to 100°C (-14°F to 212°F). For wider ranges the same system is available with an RTD or TC, with a slight decrease in accuracy.



450TH

The best part of this combination is the wide range of off-the-shelf probes. Special probes are readily available as well. A low cost general purpose probe and the 450TH thermometer will deliver 0.3°C accuracy (0° to 70°C, 32° to 158°F) for under \$ 400. The probes plug into the 450TH using a standard 1/4" phone plug for easy interchangeability.

Probes come with a 10' lead. Many configurations are available from general purpose to surface mount. Many probes are available from stock (as is the 450TH thermometer). A complete listing of standard probes may be found here: www.AdvIndSys.com/YSIMedicalProbes.htm

Examples of Standard Probes:		
 <p>401</p>	 <p>403</p>	 <p>409B</p>

Custom probes are also available in many configurations. Some of the available custom probes are shown here: www.AdvIndSys.com/YSIIIndProbes.htm

The Doric 405TH is hand held for ease of use. Its rugged front panel is easily cleaned and immune to most spills. °C and °F readings are available from front panel push pads. A hold function may be activated for hard to reach locations. Additional information is available here: <http://www.AdvIndSys.com/Doric450-THThermistorThermometer.htm> .

A typical system might look like this:

Doric 450TH	\$ 295.00
401 Probe	\$ 58.50
Total System	\$ 353.50

Additional Applications Notes and Tables are available at www.AdvIndSys.com/ApplicationsNotes.htm