

Mechanical Thermostat

The following installation procedures are suggested guidelines for the installation of a Mechanical Thermostat. They are not intended to preclude the use of other methods utilizing accepted engineering or field construction practices.

Upon Receiving, Thermostat . . .

1. Upon receiving thermostat, check to make sure the proper type has been received.
2. Store in a dry place.

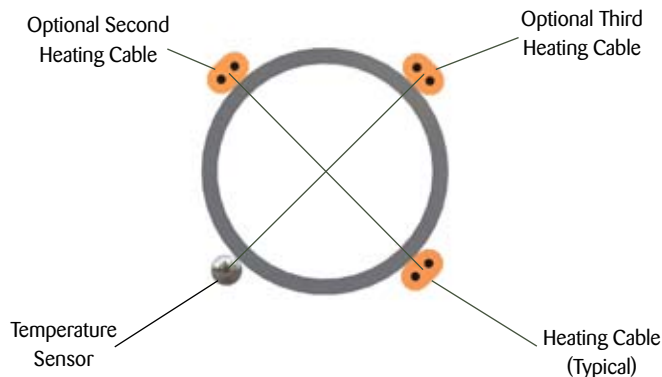
Applications . . .

1. Mechanical Thermostats are used for freeze protection or temperature maintenance of piping, tanks and instrumentation.
2. Thermostat may be installed in ordinary (nonclassified) and hazardous (classified) locations depending on the specific approvals. See product specification for specific approval information.

Thermostat Connections . . .

1. When a **line sensing controller** is specified, the sensor should be placed at least 90° around the circumference from the heating cable, or at least 2" (5 cm) from the cable. Avoid heat sinks. Entire length of sensor should be in contact with pipe.

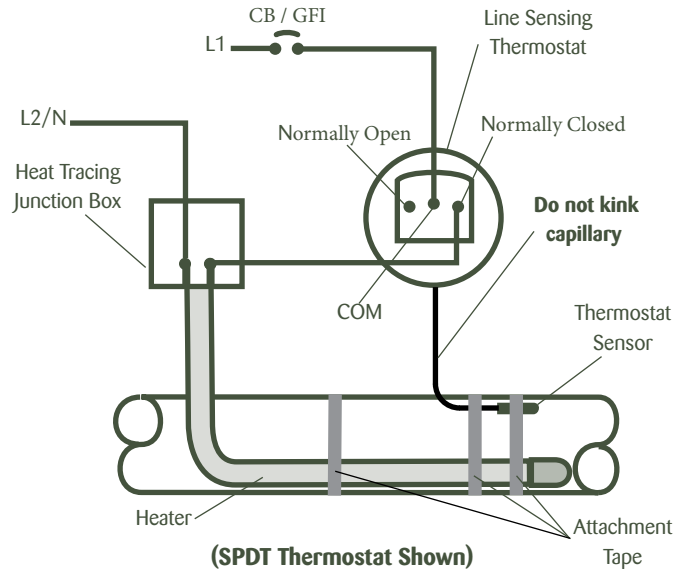
Heating Cable vs. Sensor Location



INSTALLATION PROCEDURES

2. For **line sensing control**, one leg of the heating circuit is to be connected in series with the control contacts as shown in the illustration below. The thermostat may require more than one support point. **Prevent kinking of the capillary.** Seal all thermal insulation penetrations after installation to prevent moisture intrusion.

Typical Line Sensing Control Connection



3. For **ambient sensing control**, one leg of the heating circuit should be connected in series with the control contacts as shown in the illustration below. When using an ambient sensing temperature controller, the mounting location should be representative of the coldest region, and the sensing element should not be exposed to direct sunlight or any additional heat source.

Typical Ambient Sensing Control Connection

