

### Temperature Controls and Accessories for Heat Trace Cables

Choosing the proper control depends first on the system requirements and second on the desired features and cost. Since Tempco's heat trace products are used primarily for freeze protection and to offset system heat loss, PID controls are generally not required.

The most economical is the pipe-mounted direct acting preset thermostat. Tempco offers a normally open/normally closed three wire model.

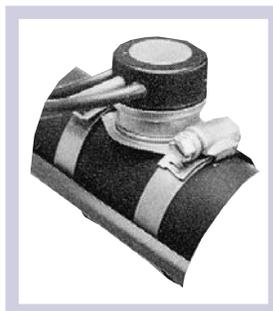
Where greater accuracy, faster response and larger ranges with adjustment capability are required, a bulb and capillary style thermostat fills the need. Tempco offers two types with NEMA 3R for general purpose and NEMA 4X where a fully sealed housing is required.

If the heat trace is used for process control and very accurate control is needed along with additional features, a thermocouple-based electronic PID controller is required.

See Section 13 – "Temperature Controllers" for more information.

Heating Cable Accessories		
Part Number	Accessory	Usage
HTP90028	Junction Box	For use with NPT pipe standoff Single hub - 1" NPT
HTP90029	Reducer	Adapts .75" NPT male to 1" NPT female
HTP90030	Aluminum Adhesive Tape 2" x 180 ft. 350°F/176°C	Helps to isolate the cable from insulation and aids in securing the cable to pipes and tanks.
HTP90031	Aluminum Adhesive Tape 2" x 180 ft. 550°F/288°C	Same as above

Action		Part No.
Closes	Opens	
35°F (2°C)	50°F (10°C)	HTP90104
45°F (7°C)	60°F (16°C)	HTP90105
60°F (16°C)	75°F (24°C)	HTP90106
90°F (32°C)	105°F (41°C)	HTP90107
185°F (85°C)	200°F (93°C)	HTP90108



This control is a preset, epoxy-sealed thermostat containing a hermetically sealed single pole, double throw switch with normally open and normally closed connections

#### Specifications

**Voltage:** Up to 277 VAC

**Current:** FM approved to 240 VAC at 25 amps

**Leads:** 36" long, 600 VAC 14 ga., 105°C PVC insulation

This control is an adjustable Stainless Steel bulb and capillary thermostat. It is enclosed in a NEMA 4X enclosure with a clear cover.

#### Specifications

**Voltage:** 120 or 240 VAC

**Contacts:** 120V SPST, 240V DPST

**Current:** 50 amps at either voltage

**Leads:** Hard wired directly to terminals

**Dimensions:** 6"H x 6"L x 5.87"W



Range		Part No.	
°F	°C	120V	240V
0 - 150	-18 - 66	HTP90113	HTP90116
50 - 300	10 - 149	HTP90114	HTP90117
150 - 650	66 - 343	HTP90115	HTP90118

Range		Part No.
°F	°C	
0 - 150	-18 - 66	HTP90109
100 - 250	38 - 121	HTP90110
200 - 350	93 - 177	HTP90111



This control is an adjustable bulb and capillary thermostat with single pole double throw contacts with NO and NC connections. It is enclosed in a NEMA 3R general purpose enclosure.

#### Specifications

**Voltage:** Up to 277 VAC

**Current:** 277 VAC at 22 amps

**Leads:** Hard wired directly to terminals

**Dimensions:** 3.30"H x 4.08"L x 4.08"W