

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.

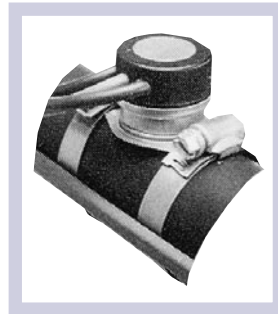
Where greater accuracy, faster response and larger ranges with adjustment capability are required, a bulb and capillary style thermostat fills the need. Tempco offers two types with NEMA 3R for general purpose and NEMA 4X where a fully sealed housing is required.

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