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.

### 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 × 6"L × 5.87"W

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 × 4.08"L × 4.08"W