

# RT Single Point On/Off Temperature Controls



## Ambient Sensing

- 120 - 480 Vac
- 0 - 225 °F Temp. Range
- 9/16" OD x 4" SS Probe
- Ordinary & Hazardous (Div. 2) Areas

## Line Sensing

- 120 - 480 Vac
- 0 - 400 °F Temp. Range
- Bulb & Capillary
- 1/4" OD x 7-1/4" SS Bulb, 36" SS Capillary
- Ordinary & Hazardous (Div. 2) Areas

## Description:

The RT Series Single Point On/Off Temperature Controls from Trasor represents the state of the art in heat tracing accessories. They are available in four models to handle a broad range of applications.

Models include two ambient sensing thermostats and two line sensing bulb and capillary thermostats. These models combine temperature control and power connection in one enclosure. This reduces the number of components and simplifies installation wiring.

## Applications:

- Freeze Protection
- Hydrocarbon and Chemical Product Piping
- Process Temperature Maintenance
- Fluid Flow and Viscosity Maintenance

## Approvals:

RTAS and RTBC are UL Listed for use in ordinary areas  
 RTAS-EP and RTBC-EP are FM certified for use in ordinary and  
 Class I, Div. 2, Groups B, C, D  
 Class II, Div. 2, Groups F, G  
 Class III, Div. 2 areas

## Features:

- Integrated controls and power connections reduce installation hardware
- Molded of durable plastic material (Ryton®, PPS)
- High service temperature
- Corrosion resistant
- Thermal stability
- Non-flammable
- High strength and rigidity
- Stainless steel sensor sheaths
- Sealed switches on EP models permit control in Div. 2 hazardous areas
- Stainless steel hardware to ensure the integrity of the system
- Cable terminations inside enclosure reduce installation time and cost
- NEMA-4X Liquid tight design prevents moisture from reaching the electrical connections. All models are rated NEMA-4X.
- UL, FM is carried by most models. Consult specific product information.

Ryton® is a registered trade name of Phillips Chemical Company



## RT Controls

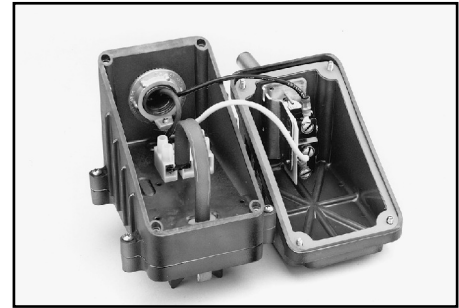
### RTAS & RTAS-EP Ambient Sensing Thermostats

**Model RTAS** is an ambient-sensing thermostat which is generally used for freeze protection in ordinary (non-hazardous) areas. The thermostat is mounted through the side of the enclosure lid. There is room in the enclosure for multiple heater connections. The thermostat is mounted through the side of the lid. It has a stainless steel temperature-sensing probe that provides good sensitivity and accurate control. This kit comes with a pipe band that fits 1" to 3" pipes.

**Model RTAS-EP** is a modified version of the Model RTAS which utilizes a sealed switch. Since this switch has no exposed contacts it is approved for use in Division 2 Hazardous Areas.

#### Specifications

Switch Rating:  
 22 A @ 120-480 VAC SPDT  
 11 A @ 120-250 VAC for EP model  
 Temperature Set Point Range:  
 0 to 225 °F (-18 to 107 °C)  
 Deadband:  
 1% of set point range  
 Factory Preset and Calibrated:  
 40 °F (4.5 °C)  
 Scale Division:  
 10 °F (5.6 °C)  
 Operating Ambient Temp. Range:  
 -40 to 160 °F (-40 to 71 °C)  
 Maximum Sensor Exposure Temp:  
 450 °F (230 °C)  
 Maximum Pipe Temperature:  
 400 °F (200 °C)  
 Sensor Dimensions:  
 Stainless Steel 9/16" OD x 4" Probe  
 Enclosure Dimensions:  
 6.25" tall x 5.25" long x 4.25" wide  
 Probe extends 3" out of body  
 Weight:  
 2 lb



### RTBC & RTBC-EP Line Sensing Thermostats

**Model RTBC** is a bulb & capillary thermostat which is generally used for process temperature maintenance applications in ordinary (non-hazardous) areas. The thermostat is mounted within the enclosure and the capillary is brought out through one of the openings in the bottom of the box. This design provides extra protection for the capillary, especially when the control is mounted on a pipe, for heat tracing applications. The three foot long stainless steel capillary provides good flexibility in mounting locations. This kit comes with a pipe band that fits 1" to 3" pipes.

**Model RTBC-EP** is a modified version of the Model RTBC which utilizes a sealed switch. Since this switch has no exposed contacts it is approved for use in Division 2 Hazardous Areas.

#### Specifications

Switch Rating:  
 22 A @ 120-480 VAC SPDT  
 11 A @ 120-250 VAC for EP model  
 Temperature Set Point Range:  
 0 to 400 °F (-18 to 200 °C)  
 Deadband:  
 1% of set point range  
 Factory Preset and Calibrated:  
 200 °F (93.3 °C)  
 Scale Division:  
 10 °F (5.6 °C)  
 Operating Ambient Temp. Range:  
 -40 to 160 °F (-40 to 71 °C)  
 Maximum Sensor Exposure Temp:  
 450 °F (230 °C)  
 Maximum Pipe Temperature:  
 400 °F (200 °C)  
 Sensor Dimensions:  
 Stainless Steel 1/4" OD x 7" Bulb  
 3' Capillary  
 Enclosure Dimensions:  
 6.25" tall x 5.25" long x 4.25" wide  
 Weight:  
 2 lb

