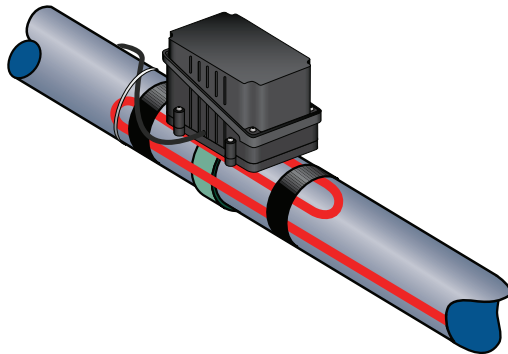


## PRODUCT OVERVIEW



Chromalox® RTBC-EP is a modified version of the RTBC Line Sensing Thermostat. It combines temperature control and power connection in a convenient, easy-to-use package for process maintenance applications, it contains a hermetically sealed switch. Since the switch has no arcing contacts, it can be used in hazardous areas for SRL, SRM/E, SRP and CWM heating cables. Like the RTBC, 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 3 ft (0.9 m) long stainless steel capillary provides flexibility for different mounting locations. The NEMA 4X rated enclosures are molded of durable, weather and corrosion-resistant polyphenylene sulfide (PPS), designed to keep moisture from reaching the electrical connections.

## DESCRIPTION

These kits provide a line-sensing thermostat with hermetically sealed switch, as well as termination, for process maintenance applications.

## KIT CONTENTS

- 1 Molded Junction Box Consisting of:
  - 1 Base
  - 1 Box with Conduit Opening
  - 1 Lid
- 1 Three-Position Terminal Block
- 1 Black Cable Grommet
- 1 Orange Cable Grommet
- 1 Cover Gasket
- 4 Cover Screws
- 4 Box Screws
- 1 Mounting Screw for Terminal Block
- 1 Capillary Grommet
- 1 Uninsulated Barrel Connector
- 1 Thermostat

## MATERIALS

<b>Junction Box, Pipe Standoff</b> .....	Electrostatic-charge-resistant, glass-filled engineered polymer, black
<b>Temperature Probe</b> .....	Stainless Steel
<b>Self-Regulating Cable Grommet</b> .....	Silicone rubber, black
<b>Constant-Wattage Cable Grommet</b> .....	Silicone rubber, orange
<b>Cover Gasket</b> .....	Silicone Rubber, black
<b>Cover Screws (4)</b> .....	Stainless Steel

# INDUSTRIAL RTBC-EP LINE SENSING THERMOSTAT

## APPROVALS



- Ordinary Areas



- Ordinary Areas
- Class I, Division 2, Groups B, C, D
- Class II, Division 2, Groups E, F, G
- Class III
- T-Rating\*

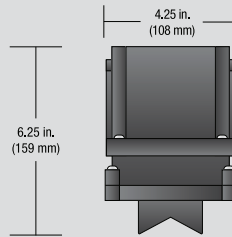


- Ordinary Areas
- Class I, Division 2 Groups B, C, D
- Class II, Division 2, Groups E\*, F, G
- Class III, Division 1\* (Type 4X)\*
- Class III, Division 2\*
- T-Rating\*

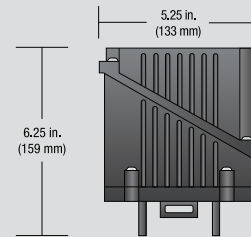
\*See cable schedule

## DIMENSIONS

Front View



Side View



## PRODUCT SPECIFICATIONS

<b>Heating Cable Use</b> .....	SRL, SRM/E, SRP, CWM
<b>Ingress Protection</b> .....	IP66
<b>Entries</b> .....	0.75 in (19 mm)
<b>Operating Temperature Range</b> .....	-40° to 160°F (-40° to 71°C)
<b>Temperature Setpoint</b> .....	0°F to 225°F (-18° to 107°C)
<b>Temperature Assembly Dimensions</b> .....	0.25 in (6.4 mm) diameter 7.25 in (184 mm) long 3 ft (0.91 m) capillary
<b>Minor Scale Division</b> .....	10°F (5.6°C)
<b>Maximum Sensor Exposure Temperature</b> .....	450°F (230°C)
<b>Switch Rating</b> .....	SPDT, 11A, 120-480V
<b>Conductor Size Range</b> .....	8 - 22 AWG
<b>Maximum Circuit Breaker Rating</b> .....	40 A
<b>Maximum Circuit Breaker Rating</b> .....	4 lb (1.81 kg)

## ORDER DETAILS

<b>Catalog Description</b> .....	Industrial RTBC-EP Line Sensing Thermostat
<b>Part Number</b> .....	389618



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\*press 1 to be directed to heat trace support