



WHITE-RODGERS

TYPE 284-50 Weather Proof, Remote Bulb TEMPERATURE CONTROL INSTALLATION INSTRUCTIONS

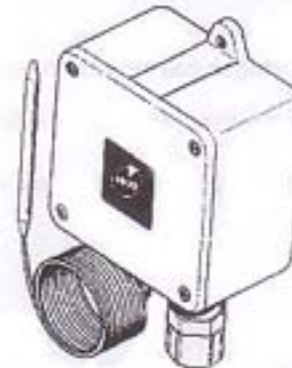
Operator: Save these instructions for future use!

**FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY BEFORE
INSTALLING OR OPERATING THIS CONTROL COULD CAUSE PERSONAL
INJURY AND/OR PROPERTY DAMAGE.**

DESCRIPTION

Type 284 Remote Bulb Thermostats are designed for use on a wide variety of heating equipment and appliances which require an ENC. 3 weather proof enclosure, and are especially suitable for electric heating. Extremely compact in size, these snap-action thermostats are suitable for use on both Inductive and non-inductive loads.

When the temperature of the liquid or air surrounding the bulb rises, the switch contacts open to turn off the heat. When the temperature drops, the contacts close to turn on the heat.



PRECAUTIONS

All wiring must conform to local and national electrical codes and ordinances.

This control is a precision instrument, and should be handled carefully. Rough handling or distorting components could cause the control to malfunction.

CAUTION

To prevent electrical shock and/or equipment damage, disconnect electric power to system at main fuse or circuit breaker box, until installation is complete.

SPECIFICATIONS

Switch Action : Open on rise, snap-action

Contact Structure: - S. P. S. T

Temperature Range: -7° to 49°C (20° to 120°F)

Differential: 3.8°C (7°F) approx.

Maximum Ambient: 66°C (150°F)

Temperature Switch:

Enclosure: CSA ENC. 3 weather proof enclosure

Electrical Rating

NON-INDUCTIVE RATING		INDUCTIVE RATING			
		FULL LOAD		LOCKED ROTOR	
120V	240V	120V	240V	120V	240V
25A	25A	10A	6A	60A	36A

INSTALLATION

NOTE

These controls have been accurately calibrated at the factory. Any attempt to calibrate these controls voids the White-Rodgers warranty.

If the equipment manufacturer has made provisions for location of the switch and control bulb, follow his instructions. If none are provided, the following general rules should be observed:

1. The control bulb should be located in an area of average temperature of the medium being controlled.

When used to sense air temperature (as in an electric

heater) the bulb should be located so that the return air to the heater flows freely over the bulb. The bulb should be fastened away from the cabinet of the heater so that it senses air temperature, and not cabinet temperature.

When used to control a liquid bath, be sure that the bulb is fully immersed in the liquid. Also be sure that the bulb is located where it can sense average temperature of the liquid. In this regard, do not locate the bulb too close to the heating element.



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Replaces 37-5541A

9850

INSTALLATION (CONT.)

- Care should be taken not to damage the capillary tubing between the switch and bulb of the control. Do not kink the capillary.
- Do not dent or bend the control bulb as this will change the control calibration and cause the control to cycle at a temperature lower than the dial setting.
- The switch of the control may be mounted in any convenient location provided that the ambient temperature surrounding the switch does not exceed 66° C (150°F).

SETTING

Remove four thermostat cover screws and remove cover to indicate the setting of the control. For a warmer setting, turn shaft clockwise. For a cooler setting, turn shaft counterclockwise.

Ensure that cover gasket is in place before replacing cover and tighten all four screws.

WIRING

All wiring should be done in accordance with local and national electrical codes and ordinances.

Follow any instructions provided by the equipment manufacturer.

The diagrams shown here represent typical wiring for these controls.

