INSTALLATION DATA
SE 5210 & SE 5220
COMMERCIAL ELECTRIC THERMOSTATS

The Robertshaw® SE5210 and SE5220 series are SPST slow make and break electric thermostats. Model SE5210 (B10) is direct acting and opens on temperature rise. Model SE5220 (B20) is reverse acting and closes on temperature rise.

Specific models will heve either a temperature dial or a knob and indicator plate. Dial models have a “D type” dial stem. Knob and plate models have a round stem for mounting knob.

Differential will vary depending on bulb application. It is extremely close when bulb is located in liquid. When bulb is located in air, differential depends upon the rate of heating and cooling. The slower the rate, the closer the differential.

ELECTRICAL RATING

20 Amp at 115V AC resistive load
15 Amp at 230V AC resistive load

SE5210 (B10)
DIAL TYPE

SE5210 (B10)
SE5220 (B20)
KNOB/ PLATE TYPE

INSTALLATION INSTRUCTIONS

CAUTION
THIS DEVICE SHOULD BE INSTALLED BY A QUALIFIED SERVICE TECHNICIAN WITH DUE REGARD FOR SAFETY AS IMPROPER INSTALLATION COULD RESULT IN A HAZARDOUS CONDITION.

This thermostat should be protected against moisture, grease, dust, lint, corrosive vapors and mounted preferably in a location which is not subject to vibration. The model SE5210 and SE5220 electric thermostats will operate within extremely close temperature differentials when the bulb is located in a liquid. When the bulb is located in air, as in ovens, the temperature differential depends upon the rate of heating and cooling. The slower the heating and cooling rate, the closer the differential. If extremely close temperature control is required, the capacity of the heating element should be in relation to the size of the appliance.

The Robertshaw SE5210 and SE5220 series may be wired so the pilot light is either On or Off, when the thermostat switch is Off. Refer to wiring diagram, Figures 1 and 2.

PILOT LIGHT IS ON WHEN THERMOSTAT SWITCH IS OFF.

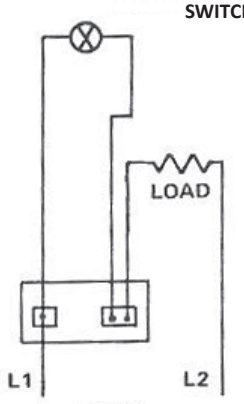

FIG. 1

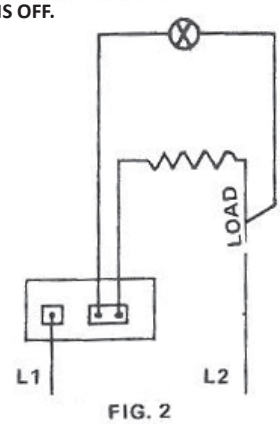

FIG. 2

CALIBRATION INSTRUCTIONS

These controls are precision instraments that have been carefully calibrated at the factory and seldom need to be recalibrated. However, if calibration is necessary, the following procedures are recommended.

1. Place the sensing element of your test instrument in the center of the area being controlled.
2. Turn the dial to the mid-point of its adjustable range and allow the equipment to come to a stable temperature. Allow the unit to cycle two or more times. Then compare the temperature setting on the dial with the reading of the test instrament.
3. If the temperatures agree, recalibration is not necessary. If they do not agree continue as follows:
4. **STEM TYPE**
   Set dial to match the reading on the test instrument. Remove dial and with a small screwdriver holding the stem stationary, turn the calibration adjustment screw clockwise to decrease temperature and counterclockwise to increase temperature. **DO NOT** exceed more than 1/4 turn of the calibration screw without rechecking the temperature as described above.

POINTER TYPE

Set dial to match the reading on the test instrument. Loosen the dial set screw and turn dial only to correspond with the test instrument reading. Retighten the dial set screw and replace dial.

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