

APPLICATION

The T6054A Industrial Line Voltage Thermostat provides line voltage control of ventilation, heating, cooling, or heating-cooling (with external changeover switch) equipment. The T6054A contains a spdt snap-acting switch actuated by a hydraulic temperature sensing element. The nickel finished sensing element is permanently secured to the case (could be mounted either top or bottom) of the thermostat.

ELECTRICAL RATINGS:

VOLTAGE	120V AC	240V AC
Full Load (amps)	7.4	3.7
Locked Rotor (amps)	44.4	22.2
Resistive	10.0	5.0

DIFFERENTIAL: 3.5 F (fixed).

MAXIMUM OPERATING AMBIENT: 125 F.

INSTALLATION

CAUTION

1. Disconnect power supply to prevent electrical shock and equipment damage.
2. Installer must be a trained, experienced serviceman.
3. Always conduct a thorough checkout when installation is complete.

LOCATION

Locate the thermostat about five feet above the floor in an area with good air circulation at average temperature. The thermostat mounts on any flat surface with three screws through the back of the case. Do not locate the thermostat on an outside wall, or where the control will be affected by drafts or radiant heat from the sun.

MOUNTING

The thermostat may be mounted in any position. To mount the thermostat, use the following procedure:

1. Remove the thermostat cover by unscrewing the single screw on the face of the control.
2. Remove the knockout from the case.
3. Mount the control at the selected location with three screws.
4. Run conduit between the thermostat, the power source, and the unit being controlled.
5. Run wiring to the thermostat and make connections. Refer to WIRING section for typical hookups.

NOTE: Wiring should not interfere with the adjustment knob.

T6054A INDUSTRIAL LINE VOLTAGE THERMOSTAT

WIRING

CAUTION

Disconnect power supply to prevent electrical shock and equipment damage.

All wiring must comply with applicable electrical codes and ordinances. Refer to heating, cooling, or ventilation equipment manufacturer's instructions or refer to Figs. 1-3 for typical hookups.

NOTE: When wiring, be sure not to exceed the electrical ratings of the thermostat.

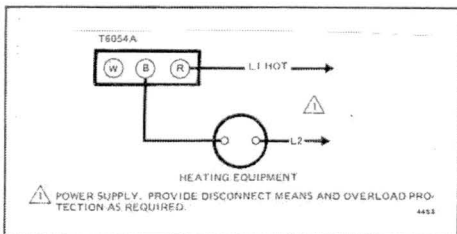


Fig. 1—Typical hookup T6054A for heating application.

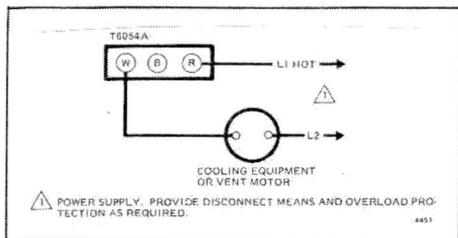


Fig. 2—Typical hookup T6054A for cooling or ventilation application.

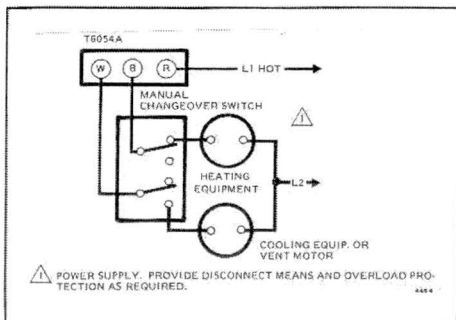


Fig. 3—Typical hookup T6054A in heating-cooling application. External changeover switch provides system selection.

OPERATION AND CHECKOUT

Always conduct a thorough checkout when installation is complete. Check the controller operation as follows:

1. Restore the power.
2. Turn the adjustment knob to move the temperature dial across the indicator and back again. If the wiring is correct, the controlled equipment will switch on and off as the temperature dial indicates the approximate space temperature.

EXAMPLE: When wired for heating (R to B), turn the dial to a higher setting to stimulate a space temperature drop. The heating equipment should

start. When the control is wired for a cooling or ventilating application (R to W), turn the dial to a lower setting to stimulate a rise in temperature. The cooling or ventilating equipment should start.

3. If the controlled equipment does not start and stop as the thermostat dial is turned, disconnect the power supply and check wiring and terminal connections.
4. If the controlled equipment operates opposite to the sequence desired, shut off the power and check for reversed leads.
5. Set the T6054A Industrial Line Voltage Thermostat to the equipment manufacturer's recommended setting before leaving job.