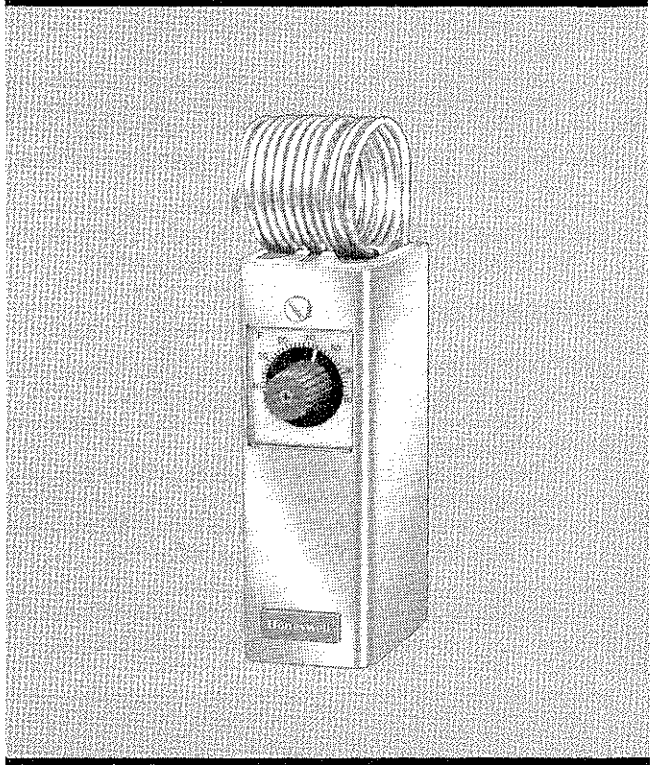
Honeywell

UTILITY LINE VOLTAGE THERMOSTATS



T4054A,B; T6054A

T4054 AND T6054 INDUSTRIAL/AGRICULTURAL LINE VOLTAGE THERMOSTATS PROVIDE EITHER SPST OR SPDT LINE VOLTAGE CONTROL IN VENTILATION, HEATING OR COOLING APPLICATIONS.

- ☐ Suitable for mounting in any position.
- ☐ Spst or spdt snap-acting switch.
- ☐ Fast response, hydraulic temperature sensitive element.
- ☐ Compact size.
- ☐ Wide temperature range.
- ☐ Temperature setting knob and setting scale on front of thermostat.
- ☐ T6054A may be used in heating-cooling systems with external changeover switch.

S.E.
REV. 1-89

Form Number 60-2173–5

SPECIFICATIONS

TRADELINE MODELS

TRADELINE models are selected and packaged to provide ease of handling, and maximum replacement value. TRADELINE model specifications are the same as those of standard models except as noted below.

TRADELINE MODELS AVAILABLE:
T6054A Industrial Line Voltage Thermostat; spdt switching; provides control in ventilation, heating, cooling, or heating-cooling (with external change over switch) systems.

ADDITIONAL FEATURES: TRADELINE pack with cross reference label and special instruction sheet.

STANDARD MODELS

MODELS:
T4054A Industrial Line voltage Thermostat–spst switching; for heating applicatins.
T4054B Industrial Line Voltage Thermostat–spst switching; for cooling applications.
T6054A Industrial Line voltage Thermostat–spdt switching; for ventilation, heating, cooling, or heating-cooling (with external changeover switch) applications.

MAXIMUM TEMPERATURE DEVICE MAY BE EXPOSED TO: 125 F [52 C].

UNDERWRITERS LABORATORIES INC. LISTED: File No. E4436, vol. 5, 8-21-72, Guide No. XAPX.

DIFFERENTIAL; 3/5 F [1.9 C] fixed.

SWITCHING: Switch actuated by hydraulic temperature sensing element on change in temperature.
T4054A–spst switching; makes R to B on temperature fall.
T4054B–spst switching; makes R to W on temperature rise.
T6054A–spdt switching; makes R to B on temperature fall or R to W on temperature rise.

ELECTRICAL RATINGS;

VOLTAGE	120 Vac	240 Vac
T4054A		
Full Load (amp)	16.0	8.0
Locked Rotor (amp)	96.0	48.0
T4054B		
Full Load (amp)	16.0	8.0
Locked Rotor (amp)	80.0	40.0
T6054A		
Full Load (amp)	7.4	3.7
Locked Rotor (amp)	44.4	22.2
Resistive	10.0	5.0

SCALE RANGE:
T4054A,B–plus 30 to plus 110 F [minus 1 C to plus 38 C] (scale marked in 2 F [1 C] increments).
T6054A–minus 30 F to plus 100 F [minus 34 C to plus 38 C] (scale marked in 2 F [1 C] increments).

MOUNTING: Mounts on wall with 3 screws.

COLOR: Gray.

(continued on page 3)

ORDERING INFORMATION

WHEN PURCHASING REPLACEMENT AND MODERNIZATION PRODUCTS FROM YOUR TRADELINE WHOLESALER OR YOUR DISTRIBUTOR, REFER TO THE TRADELINE CATALOG OR PRICE SHEETS FOR COMPLETE ORDERING NUMBER OR SPECIFY—

1. **Order number.**

IF YOU HAVE ADDITIONAL QUESTIONS, NEED FURTHER INFORMATION, OR WOULD LIKE TO COMMENT ON OUR PRODUCTS OR SERVICES, PLEASE WRITE OR PHONE:

1. **YOUR LOCAL HONEYWELL BUILDING CONTROLS SALES OFFICE (CHECK WHITE PAGES OF YOUR PHONE DIRECTORY).**

2. **BUILDING CONTROLS DIVISION CUSTOMER SERVICE**
   HONEYWELL INC., 1885 DOUGLAS DRIVE NORTH
   MINNEAPOLIS, MINNESOTA 55422 (612) 542-7500

   (IN CANADA—HONEYWELL CONTROLS LIMITED, 740 ELLESMERE ROAD, SCARBOROUGH, ONTARIO M1P 2V9) INTERNATIONAL SALES AND SERVICE OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD.

OPTIONAL SPECIFICATION: Models are available with tin-coated sensing elements to resist corrosion, cadmium coated sensing elements, and/or dichromate covers.

DIMENSIONS IN in. [mm]:
T4054A,B–7-5/8 x 2-5/8 x 2 [193.7 x 66.7 x 50.8].
T6054A–7-1/4 x 2-5/8 x 2 [184.2 x 66.7 x 50.8].

INSTALLATION

WHEN INSTALLING THIS PRODUCT...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

CAUTION

Disconnect power supply to prevent electrical shock and equipment damage.

LOCATION

Select a location about 5 ft [1.5 m] above the floor in an area with good air circulation at average temperature.

Do not mount the thermostat where it may be affected by—
- drafts, or dead spots behind doors and in corners.
- hot or cold air from ducts.
- radiant heat from the sun or appliances.
- concealed pipes and chimneys.
- unheated (uncooled) areas behind the thermostat.

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 through the knock out hole and make connections. Refer to Wiring section.

NOTE: Wiring should not interfere with the adjusting knob.

WIRING

Disconnect power supply to prevent electrical shock and equipment damage.

All wiring must comply with applicable electrical codes and ordinances. Refer to heating and/or cooling equipment manufacturer's instructions or refer to Figs. 1-5 for typical hookups.

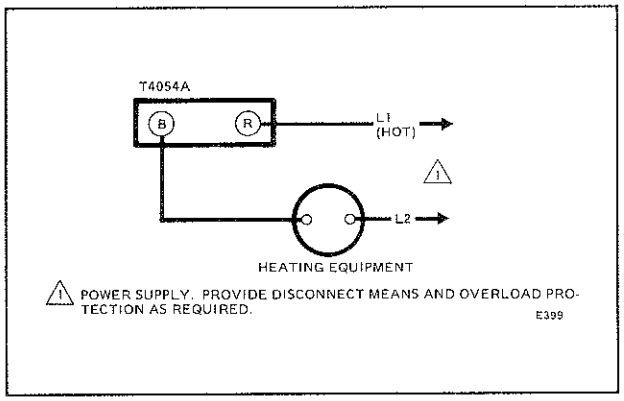


FIG. 1—TYPICAL HOOKUP T4054A IN HEATING APPLICATION.

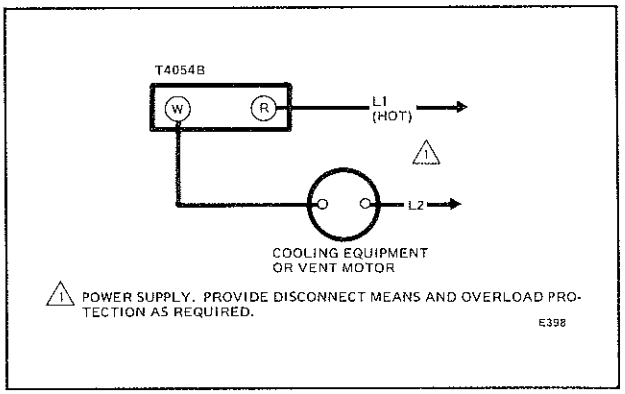


FIG. 2—TYPICAL HOOKUP T4054B IN COOLING OR VENTILATION APPLICATION.

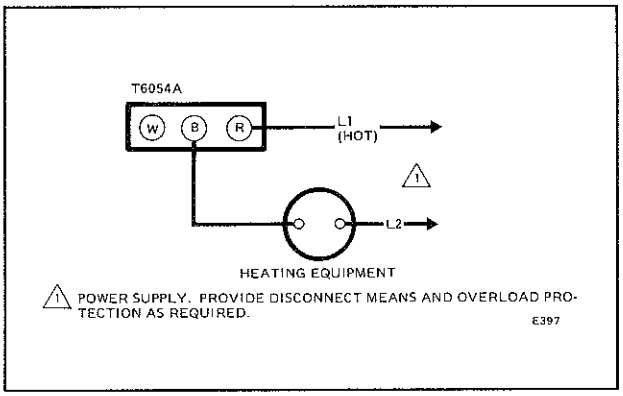


FIG. 3—TYPICAL HOOKUP T6054A FOR HEATING APPLICATION.

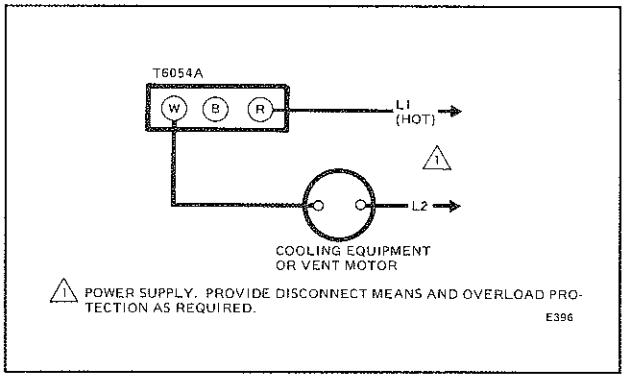


FIG. 4—TYPICAL HOOKUP T6054A FOR COOLING OR VENTILATION APPLICATION.

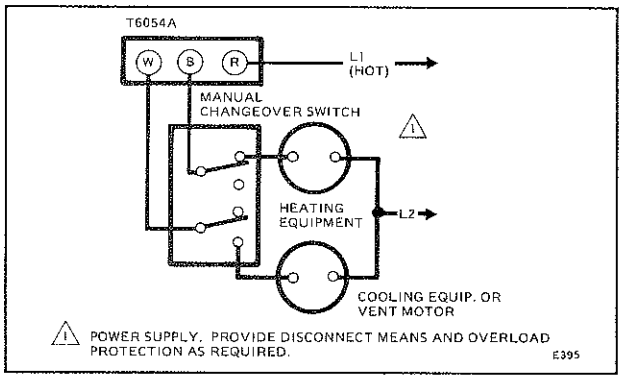


FIG. 5—TYPICAL HOOKUP T6054A IN HEATING-COOLING APPLICATION, EXTERNAL CHANGE-OVER SWITCH PROVIDES SYSTEM SELECTION.

OPERATION AND CHECKOUT

After completing installation and wiring, check the controller operation as follows:

1. Turn on 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), turning the dial counterclockwise ↶ to a higher setting simulates a space temperature drop and the heating equipment should come on. When the control is wired for a cooling or ventilating application (R to W), turning the dial clockwise ↷ to a lower setting simulates a rise in temperature and the cooling or ventilating equipment should come on.

3. If the controlled equipment does not start and stop as the thermostat dial is turned, disconnect the power supply and check the wiring and terminal connections.
4. IF the controlled equipment operates opposite to the sequence desired, shut off the power and check for reversed leads on the switch.

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