

Honeywell

T4051A,B,D; T6051A,B; T6052A,B HEAVY-DUTY THERMOSTATS



T6051



T4051

THE T4051, T6051, AND T6052 ARE HEAVY-DUTY, LINE VOLTAGE THERMOSTATS USED TO CONTROL FAN COILS, FANS, MOTOR STARTERS, VALVES, CONTACTORS, AND CIRCULATOR MOTORS IN HEATING AND/OR COOLING SYSTEMS.

- T4051A
- T6051A
- T6052A
- T4051B
- T6051B
- T6052B
- T4051D

- T4051A is for heating control.
- T4051B is for cooling control.
- T4051D is for electric heat applications.
- T6051A and B may be used in heating systems, cooling systems, combination heat-cool systems (changeover must be provided), or as a series 60 controller for valves and motors.
- T6051B has special explosion-proof housing.
- T6052A is for two-stage heating or two-stage cooling systems.
- T6052B is for one-stage heating-cooling systems with automatic changeover.
- Q651 Subbases are available to provide system and fan switching from the thermostat location.
- A locking cover is standard on all models.
- The set point knob locks in the desired setting and may be removed to prevent tampering.
- TRADELINE models maybe vertically or horizontally mounted.

SPECIFICATIONS

IMPORTANT

THE SPECIFICATIONS GIVEN IN THIS PUBLICATION DO NOT INCLUDE NORMAL MANUFACTURING TOLERANCES. THEREFORE, THIS UNIT MAY NOT MATCH THE LISTED SPECIFICATIONS EXACTLY. ALSO, THIS PRODUCT IS TESTED AND CALIBRATED UNDER CLOSELY CONTROLLED CONDITIONS, AND SOME MINOR DIFFERENCES IN PERFORMANCE CAN BE EXPECTED IF THOSE CONDITIONS ARE CHANGED.

TRADELINE MODELS

TRADELINE models are selected and packaged to provide ease of stocking, 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:

T6051A, T6052A,B Heavy Duty Thermostats.

MOUNTING: Mount either vertically or horizontally on a standard outlet box. T6051A, T6052B can be mounted on a Q651 Subbase (see Accessories) to provide manual switching at thermostat.

RESISTIVE CURRENT (ELECTRIC HEAT APPLICATIONS)

FOR T6051A (without Q651): 22 amp at 120/240 Vac; 19 amp at 277 Vac.

SCALE RANGE: 46 to 84 F; scale marked 50, 60, 70, 80 [8 to 29 C; scale marked 10, 15, 20, 25].

ADDITIONAL FEATURES:

- Extra cover plate for horizontal mounting.
- T6051A may be used in electric heat systems (without Q651 Subbase).
- TRADELINE pack with cross-reference label and special instruction sheet.

STANDARD MODELS

MODELS:

- T4051A Heavy Duty Thermostat—heating only.
- T4051B Heavy Duty Thermostat—cooling only.
- T4051D Heavy Duty Thermostat—electric heating only.
- T6051A Heavy Duty Thermostat—heating only, cooling only, or heating/cooling (external changeover switch required).
- T6051B Explosion-proof, Heavy Duty Thermostat—heating only, cooling only, or heating/cooling (external changeover switch required).
- T6052A Heavy Duty Thermostat—two-stage heating or cooling.
- T6052B Heavy Duty Thermostat—heating/cooling with automatic changeover.

UNDERWRITERS LABORATORIES INC. LISTED:

T4051A (with or without Q561A,B), T4051B,D; T6051A (with or without Q651A,B,C), T6052A, T6052B (with or without Q651C)—File No. E4436, Guide No. XAPX.

T6051B—File No. E12842, Guide No. XBDV.

Explosion-proof Enclosure—Class I, Groups C and D and Class 2, Groups E, F, and G.

CANADIAN STANDARDS ASSOCIATION CERTIFIED:

T4051A,B,D; T6051A; T6052A,B—File No. LR1620.

T6051B—File No. LR30676-L.

ELECTRICAL RATINGS (amperes):

Voltage and Frequency—120/240 Vac, 50/60 Hz. (T4051B— 120 or 240 Vac, 50/60 Hz.).

All models except T6051B—

| | | 120 Vac AC | 240 Vac AC |
|--|--------------|---------------|---------------|
| T4051A,B,D ^a | | | |
| T6051A (heat) | Full Load | 16.0 | 8.0 |
| T6052A (N.C. contacts) | | | |
| T6052B (auto changeover heat and cool) | Locked Rotor | 96.0 | 48.0 |
| T6051A (cool) | Full Load | 8.0 | 4.0 |
| T6052A (N.O. contacts) | Locked Rotor | 48.0 | 24.0 |

T6051B Only—

| | | 120 Vac AC | 240 Vac AC |
|---------|--------------|---------------|---------------|
| Heating | Full Load | 10.2 | 6.5 |
| | Locked Rotor | 61.2 | 39.0 |
| Cooling | Full Load | 7.4 | 4.0 |
| | Locked Rotor | 44.4 | 24.0 |

^a T4051D also has resistive rating—22 amp at 120/240 Vac; 19 amp at 277 Vac.
Pilot Duty Rating (all models)—125 VA.

DIFFERENTIAL:

T4051, T6051—1 F [0.6 C].

T6052A—

—stage 1 heat, stage 2 cool—2.5 F [1.4 C] (nominal).

—stage 2 heat, stage 1 cool—3.2 F [1.8 C] (nominal).

T6052B—

—stage 1 heat—2.5 F [1.4 C] (nominal).

—stage 2 heat—3.2 F [1.8 C] (nominal).

SWITCHING: Snap-acting switch makes on temperature fall for heating and on temperature rise for cooling. On T6052A, two switches make in sequence for two-stage heating or cooling. On T6052B, two switches make in sequence for auto changeover.

SCALE RANGE:

Fahrenheit—46 to 84 F; scale marked 50, 60, 70, 80.

Celsius—8 to 29 C; scale marked 10, 15, 20, 25.

MOUNTING: All models except T6051B mount directly on standard outlet box. T6051B cast housing serves as outlet box.

COVER: Molded cover.

DIMENSIONS, IN INCHES [MILLIMETERS IN BRACKETS]: All models except T6051B—5 [127] high, 3-1/8 [79.4] wide, 1-5/8 [41.3] deep. Switches and wiring terminals protrude into outlet box 7/8 inch [22.2 mm]. T6051B—see Fig. 1.

OPTIONAL SPECIFICATIONS:

1. T6051A with WARMER-COOLER scale; moisture fungus treated.
2. T6051A, 46 to 84 Fahrenheit scale, for horizontal mounting.
3. T6051A with Celsius scale. Mounts either horizontally or vertically.
4. T6052A with Celsius scale. Mounts either horizontally or vertically.
5. T6052B with Celsius scale. Mounts either horizontally or vertically.
6. T4051, T6051A, or T6052 with metal cover.
7. T4051, T6051A, or T6052 without thermometer.

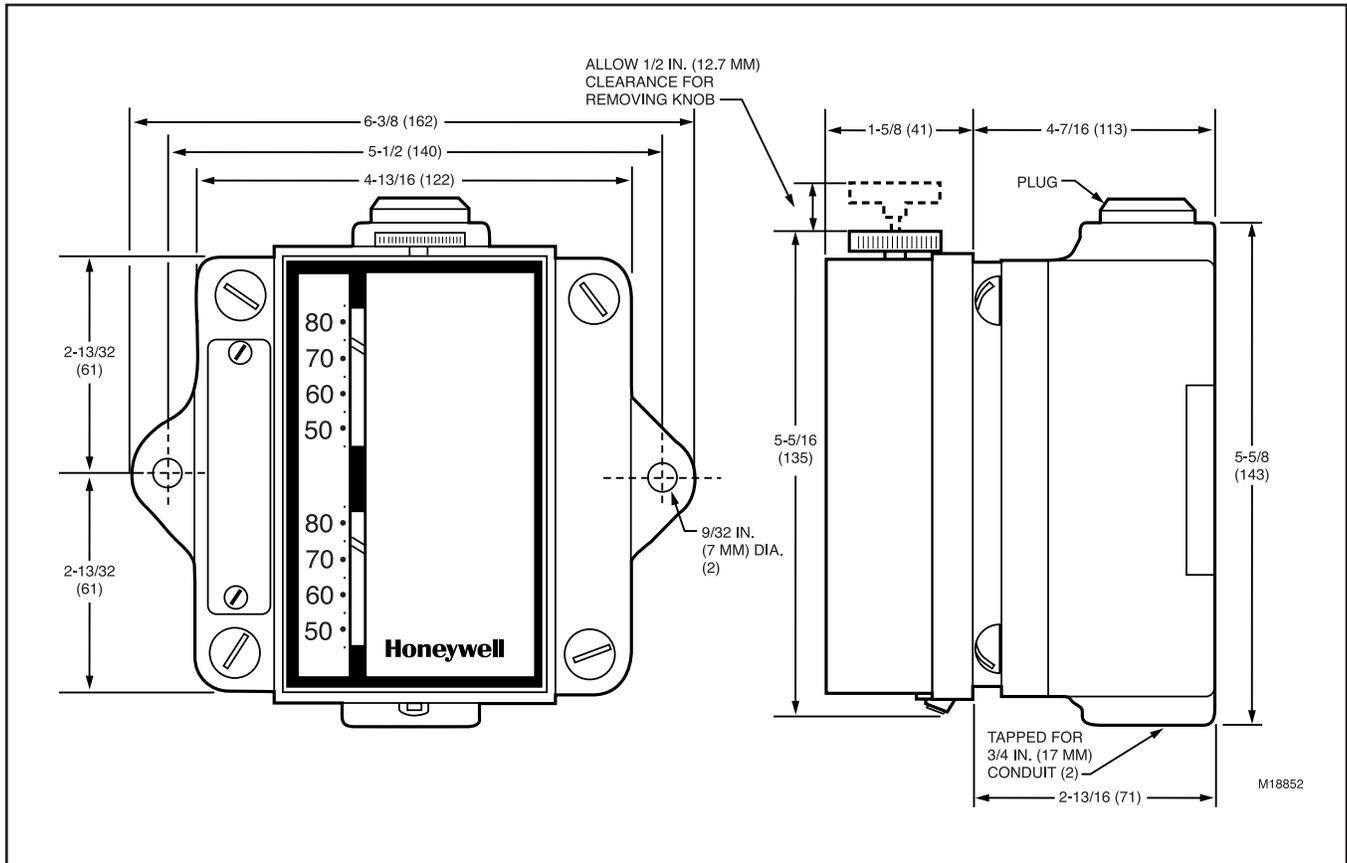


Fig. 1—DIMENSIONS IN INCHES [mm IN BRACKETS]