

# HVAC CONTROLS

## Line Voltage Thermostats

### Line Voltage Thermostats

- Mount to standard 2 x 4" vertical box

For use with fan coils, fans, contactors, circulator motors, motor starters, and valves. All units UL Listed except No. 4NE56. All are CSA Certified except Nos. 4NE56 and 2E503.

Note: For amp ratings, see www.grainger.com.



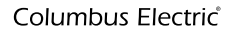
No. 1TKF9



No. 2E158



No. 1UH9



#### HEAT ONLY

No. 2E477 has locking case to prevent tampering. No. 4PU48 has positive Off position.

#### COOL ONLY

Single line break type thermostat is for cooling only. UL Listed.

#### HEATING/COOLING

No. 2E517 includes removable locking cover. No. 4NE56 features a 44°F frost protection setting. Nos. 2E734 and 3T243 feature two dial stops for locking dial setting. No. 2E503 is UL and C-UL Listed.

| Switch Type   | Control Range (°F) | Diff. (°F) | Pilot Duty (VA) | Dimensions (In.) |       |       | Brand             | Mfr. Model    | Item No. | \$ Each | Shpg. Wt. |     |
|---|--------------------|------------|-----------------|------------------|-------|-------|-------------------|---------------|----------|---------|-----------|-----|
|   |                    |            |                 | H                | W     | D     |                   |               |          |         |           |     |
| <b>Heat Only Thermostats</b>                              |                    |            |                 |                  |       |       |                   |               |          |         |           |     |
| DPST  | 50 to 90           | 3          | —               | 4 3/4            | 2 3/4 | 2 3/4 | Dayton            | —             | 4PU48    | 16.64   | 0.8       |     |
| SPST  | 50 to 90           | 0          | 125             | 5                | 3 1/4 | 2 3/4 | Invensys          | 801           | 1TKF9    | 11.09   | 0.6       |     |
| SPST  | 55 to 85           | 2          | —               | 6                | 2 3/4 | 2 1/2 | White-Rodgers     | 152-9         | 2E369    | 106.20  | 1.8       |     |
| SPST  | 55 to 95           | 2          | —               | 6                | 2 3/4 | 2 1/2 | White-Rodgers     | 152-10        | 2E477    | 125.15  | 1.8       |     |
| <b>Cool Only Thermostat</b>                               |                    |            |                 |                  |       |       |                   |               |          |         |           |     |
| SPST  | 50 to 90           | 0          | 125             | 5                | 3 3/4 | 2 3/4 | Invensys          | 803           | 1TKG1    | 16.65   | 0.6       |     |
| <b>Heating/Cooling Thermostats</b>                        |                    |            |                 |                  |       |       |                   |               |          |         |           |     |
| SPDT  | 50 to 90           | 2h/4c      | —               | 4 3/4            | 2 3/4 | 2 3/4 | Columbus Electric | ETD-SS-6S     | 2E158    | 16.77   | 0.5       |     |
| SPDT  | 0 to 120           | 1          | 125             | 5                | 3 3/4 | 1 3/4 | Honeywell         | T6051A1016    | 2E517    | 94.75   | 1.0       |     |
| SPDT  | 44 to 86           | 2          | 125             | 4 1/2            | 2 3/4 | 1 1/2 | Honeywell         | T651A3018     | 4NE56    | 59.65   | 0.5       |     |
| SPDT  | 40 to 90           | 3h/3.5c    | —               | 4 1/4            | 3     | 2 1/2 | Johnson Controls  | T26T3E        | 2E503    | 87.70   | 0.9       |     |
| SPDT  | 55 to 90           | 1.5        | 125             | 5 1/2            | 2 1/2 | 2 1/2 | White-Rodgers     | 1A10-651      | 2E734    | 58.95   | 0.7       |     |
| SPDT  | 36 to 90           | 1.5        | 125             | 5 1/2            | 2 1/2 | 2 1/2 | White-Rodgers     | 1A16-51       | 3T243    | 86.00   | 0.7       |     |
| SPDT  | 55 to 95           | 3          | —               | 6                | 2 3/4 | 2 1/2 | White-Rodgers     | 179-1         | 2E997    | 117.75  | 1.8       |     |
| <b>Heating/Cooling Fan Coil Thermostats</b>               |                    |            |                 |                  |       |       |                   |               |          |         |           |     |
| (2) SPST  | 40 to 90           | +/- 2      | —               | 4 1/4            | 3 3/4 | 1 1/4 | Dayton            | —             | 1UHE3    | 26.50   | 0.3       |     |
| (2) SPST  | 40 to 90           | +/- 2      | —               | 4 1/4            | 3 3/4 | 1 1/4 | Dayton            | —             | 1UHE4    | 26.50   | 0.3       |     |
| SPST  | 50 to 90           | +/-1.36    | 100             | 3 1/4            | 4 3/4 | 1 1/4 | Honeywell         | T6575C1001    | 1R2Y7    | 81.30   | 0.7       |     |
| SPDT  | 55 to 95           | —          | —               | 4 3/4            | 4 1/4 | 1 3/4 | Honeywell         | T4039M1004    | 2E858    | 115.00  | 0.7       |     |
| SPDT  | 36 to 90           | 1.5        | —               | 4 1/2            | 4 1/2 | 2 1/4 | White-Rodgers     | 1A11-2        | 1N172    | 91.50   | 1.1       |     |
| <b>Thermostat and Humidistat/Dehumidistat</b>             |                    |            |                 |                  |       |       |                   |               |          |         |           |     |
| (2) SPST  | 41 to 95           | +/-1       | —               | 4 1/4            | 3 3/4 | 1 1/4 | Dayton            | —             | 1UH9     | 53.25   | 0.3       |     |
| <b>Subbase</b>  |                    |            |                 |                  |       |       |                   |               |          |         |           |     |
| Heating-Cooling Subbase for use with Nos. 2E734 and 3T243 |                    |            |                 |                  |       |       |                   | White-Rodgers | S29-21   | 2E735   | 34.75     | 0.4 |

### Electric Heat Line Voltage Thermostats

- Mount to standard 2 x 4" vertical box

For precise control of resistive-rated electric heating equipment. All units are UL Listed; Nos. 6WY23 and 6WY24 are C-UL Listed. All are CSA Certified.



No. 4PU49



No. 6WY24



#### NO. 4CZ52

Controls both fan-forced and baseboard electric heaters. Thermoplastic mounting base and two 6" copper lead wires.

#### NO. 4CZ53

Patented CoolSwitch™ technology reduces wear on contacts and provides longer thermostat life. 5 to 7 cycles per hour. Includes two 6" copper lead wires.

#### NO. 6WY23

Shows actual temperature on large LCD. Heating indicator confirms at a glance that the heat is on. Backlight button and On/Off switch.

#### NO. 6WY24

Features 7-day programming with easy, push-button adjustment. Large LCD shows time, day, and actual temperature. 3 preset temperature buttons: normal, economy, and vacation or extended absence. Features early-start switch, On/Off switch, and backlight button.

#### NOS. 2E831 AND 2E832

Bimetal sensor element and long-lasting Micro Switch™ mechanism. Thermostats include thermometer and locking cover. No. 2E832 has Positive Off position.

| Thermostat Type             | Switch Type | Sensor Type                 | Resistive Contact Ratings 240V (A) |          | Control Range (°F) | Differential (Deg. F) | Color        | Dimensions (In.) |       |       | Brand         | Mfr. Model  | Item No. | \$ Each | Shpg. Wt. |
|-----------------------------|-------------|-----------------------------|------------------------------------|----------|--------------------|-----------------------|--------------|------------------|-------|-------|---------------|-------------|----------|---------|-----------|
|                             |             |                             | 120V (A)                           | 240V (A) |                    |                       |              | H                | W     | D     |               |             |          |         |           |
| Bimetal Operated            | SPST        | Bimetal                     | 22                                 | 22       | 50 to 90           | 3                     | White        | 4 3/4            | 2 3/4 | 2 3/4 | Dayton        | —           | 4PU49    | 20.01   | 0.7       |
| 5+1+1 Programmable          | SPST        | NTC Thermistor              | 15                                 | —        | 41 to 95           | +/- 1                 | White        | 4 3/4            | 3 3/4 | 1 1/4 | Dayton        | —           | 1UH64    | 45.00   | 0.3       |
| Electronic                  | SPST        | NTC Thermistor              | 15                                 | —        | 41 to 95           | +/- 1                 | White        | 4 3/4            | 3 3/4 | 1 1/4 | Dayton        | —           | 1UH61    | 62.50   | 0.3       |
| Electronic                  | SPST        | NTC Thermistor              | 15                                 | —        | 50 to 90           | +/- 2                 | White        | 4 3/4            | 3 3/4 | 1 1/4 | Dayton        | —           | 1UHE8    | 22.50   | 0.3       |
| Analog                      | SPST        | Vapor-filled dual-diaphragm | 22                                 | 22       | 50 to 80           | +/- 2                 | White        | 4 1/2            | 2 1/2 | 2 3/4 | Honeywell     | T4398A1021  | 4CZ52    | 23.51   | 0.6       |
| Analog                      | SPST        | Thermistor                  | —                                  | 16       | 50 to 80           | +/- 1                 | White        | 4 3/4            | 3 3/4 | 2 3/4 | Honeywell     | T4800A1015  | 4CZ53    | 59.85   | 0.7       |
| Digital Nonprogrammable     | DPST        | Thermistor                  | —                                  | 15       | 40 to 86           | +/- 1                 | White        | 4 3/4            | 2 3/4 | 7/8   | Honeywell     | TL7235A1003 | 6WY23    | 54.55   | 0.8       |
| Digital Programmable        | DPST        | Thermistor                  | —                                  | 15       | 40 to 86           | +/- 1                 | White        | 4 3/4            | 2 3/4 | 7/8   | Honeywell     | TL8230A1003 | 6WY24    | 59.80   | 0.8       |
| Electric Heat, Slide Action | SPST        | Bimetal                     | 22                                 | 22       | 40 to 80           | +/- 3                 | Beige        | 4 1/2            | 2 3/4 | 1 1/4 | Honeywell     | T498A1778   | 2E831    | 30.55   | 0.5       |
| Electric Heat, Slide Action | DPST        | Bimetal                     | 22                                 | 22       | 40 to 85           | +/- 3                 | Brushed Gold | 4 1/2            | 2 3/4 | 1 1/4 | Honeywell     | T498B1512   | 2E832    | 36.65   | 0.5       |
| Electric Heat, Slide Action | SPST        | Bimetal                     | 22                                 | 22       | 40 to 85           | +/- 1                 | Beige        | 4 1/2            | 2 3/4 | 1 1/4 | White-Rodgers | 1A65-641    | 4E036    | 29.45   | 0.6       |
| Electric Heat, Slide Action | DPST        | Bimetal                     | 22                                 | 22       | 40 to 85           | +/- 1                 | Beige        | 4 1/2            | 2 3/4 | 1 1/4 | White-Rodgers | 1A66-641    | 4E037    | 39.20   | 0.6       |

(\*) Double pole disconnect with "Off" position which mechanically breaks both sides of line.

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