

# THERMOSTATS & CONTROLLERS



## PECO LINE AND LOW VOLTAGE TWO-POSITION AND PROPORTIONAL THERMOSTATS T155 AND T167 SERIES



### DESCRIPTION

The Peco T155 Series is a general-purpose, electronic, two-position line-voltage and low-voltage thermostat. The T167 Series is a 0 to 10 VDC proportional heating/cooling low voltage thermostat. Both are designed for a variety of two- and four-pipe, heating, and cooling applications. Both manual and automatic changeover models include a provision for a remote thermistor temperature sensor.

### FEATURES

- **Electronic design performance**
- **Two-position and Proportional models**
- **Remote sensor capability**
- **Fan and system switching models**
- **°F scale standard**
- **°C or warmer/cooler dials available**
- **Setpoint stops available**



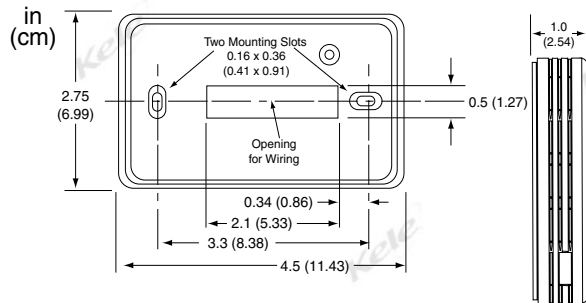
**TB155-048**  
Two-position



**TA167-007**  
Proportional



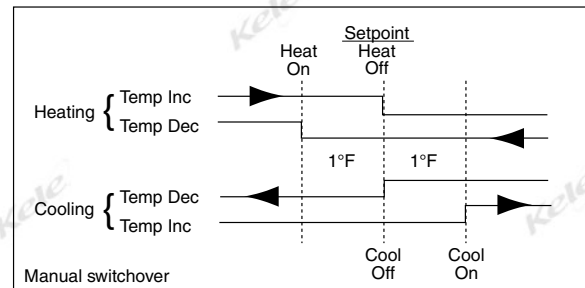
### DIMENSIONS



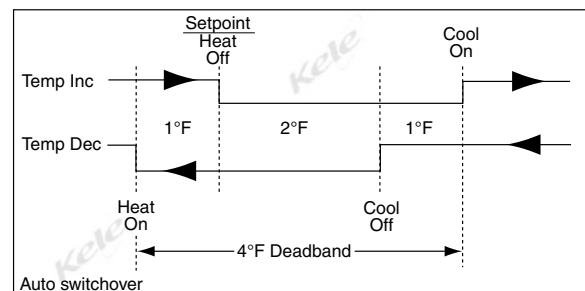
### SPECIFICATIONS

|                          |  |
|--------------------------|--|
| <b>T155</b>              |  |
| Supply Voltage           | 24-277 VAC                             |
| Supply Current           | 25 mA @ 24 VAC                         |
| Output Capacity          | 10 VA @ 24 VAC<br>20 VA @ 120-277 VAC  |
| Control Type             | Two position                           |
| Differential             | 1°F (0.5°C)                            |
| Deadband                 | 4°F (2.2°C) (TB155 only)               |
| <b>T167</b>              |  |
| Supply Voltage           | 24 VAC                                 |
| Supply Current           | 25 mA                                  |
| Control Type             | Proportional                           |
| Proportional Band        | 2°F (1°C)                              |
| Control Output           | 0-10 VDC, 1 kΩ min                     |
| Deadband                 |  |
| 0-10V actuator           | 0°F (possible H and C output ON)       |
| 2-10V actuator           | 0.8°F (0.44°C)                         |
| <b>General</b>           |  |
| Fan/System Switch Rating | 24 VA @ 24 VAC<br>125 VA @ 120-277 VAC |
| Setpoint                 | 50° to 90°F (10° to 32°C)              |
| Operating Temperature    | 32° to 130°F (0° to 55°C)              |
| Construction             | Flame-retardant PVC                    |
| Color                    | Cool gray                              |
| Weight                   | 0.28 lb (0.13 Kg)                      |
| Approvals                | UL Listed File #E50023, CE             |
| Warranty                 | 5 years                                |

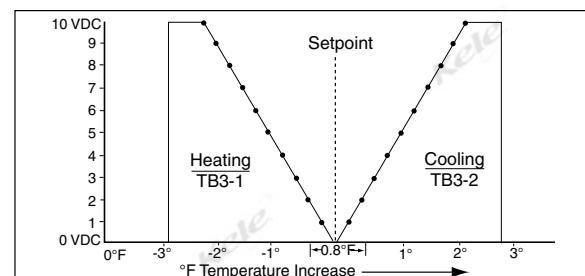
### SEQUENCE GRAPHS



**TA155-047**



**TB155-048**



**TA167**

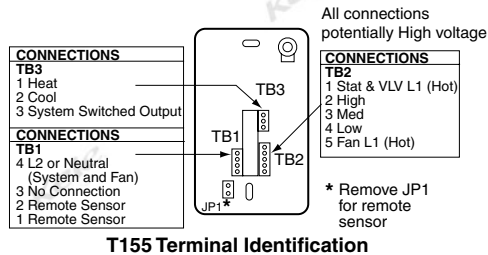
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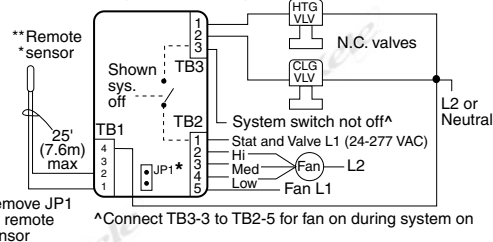
## PECO LINE AND LOW VOLTAGE TWO-POSITION AND PROPORTIONAL THERMOSTATS T155 AND T167 SERIES

### T155 WIRING



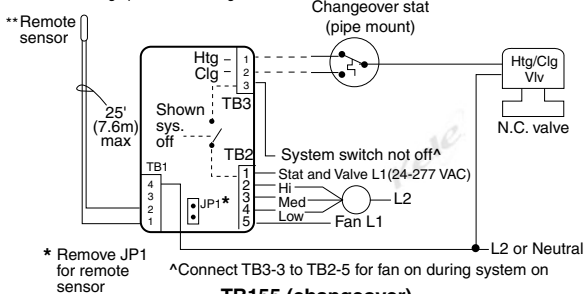
**T155 Terminal Identification**

\*\* Stat L1 voltage present on wiring



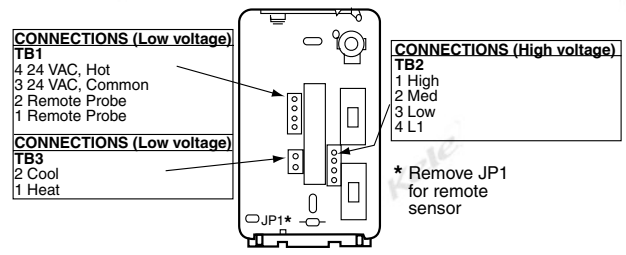
**T155**

\*\* Stat L1 voltage present on wiring

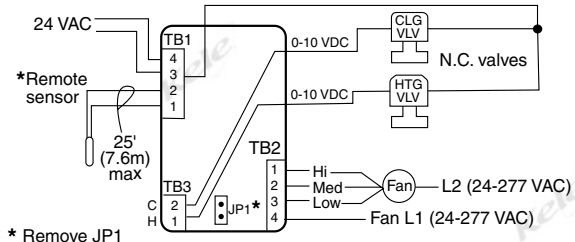


**TB155 (changeover)**

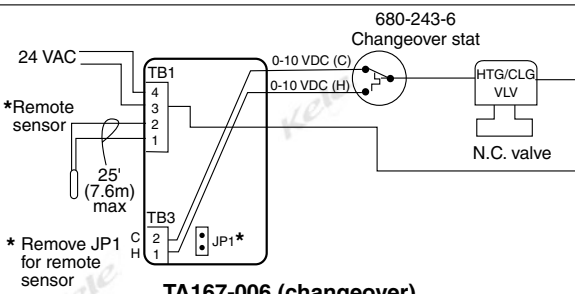
### T167 WIRING



**T167 Terminal Identification**



**TA167-007, H or C  
TA167-006 w/o TB2, H and C**



**TA167-006 (changeover)**

### ORDERING INFORMATION

| PART NUMBER |                | CONTROL OUTPUTS |                       | USER CONTROL    |                         | OPTIONAL SENSORS        | COVERS        |
|-------------|----------------|-----------------|-----------------------|-----------------|-------------------------|-------------------------|---------------|
| NEW MODEL   | OLD KELE MODEL | ON/OFF TRIAC    | PROPORTIONAL 0-10 VDC | FAN ^ SWITCHING | SYSTEM MODE ^ SWITCHING | TWO PIPE CHANGEOVER     |               |
| TA155-047^  | All TA155-043  | 1H or 1C        | --                    | H/M/L*          | Htg/Off/Clg**           | None, manual only       | horz. & vert. |
| TB155-048^  | All TB155-047  | 1H and 1C       | --                    | H/M/L*          | On/Off**                | Yes, requires C/O^ stat | horz. & vert. |
| TA167-006^  | --             | --              | 1H and 1C             | None            | None                    | Yes, requires C/O^ stat | vertical      |
| TA167-007^  | --             | --              | 1H or 1C              | H/M/L*          | Htg/Off/Clg**           | None, manual only       | vertical      |

^ Changing the cover on T155 and T167 thermostats may eliminate the fan and system switching (See accessories C155-\_\_). (New models only)

^ Must use a changeover thermostat such as the 680-243-6.

\* H/M/L = High/Medium/Low, 24-277 VAC fan contacts, Off is wired through the system switch and shuts down the thermostat.

\*\* Fan is off when system switch is Off, 24-277 VAC fan control.

**Note:** All Triac outputs are 24-277 VAC with voltage potential in an open circuit.

### RELATED PRODUCTS

|                  |  |
|------------------|--|
| <b>65170</b>     | Warmer/cooler setpoint dial  |
| <b>65345</b>     | Thermostat base plate, 4.75" x 4.75"   |
| <b>65410</b>     | 10°-34°C setpoint dial   |
| <b>65860</b>     | Setpoint range stop tabs, 2°F increments   |
| <b>680-243-6</b> | Changeover thermostat with conduit fitting   |
| <b>68671</b>     | Remote sensor for T155   |
| <b>CA155</b>     | Thermostat cover for TA155-047, without fan or system switch, vertical only                |
| <b>CA155-HOC</b> | Thermostat cover for TA155-047, with system H/O/C switch and no fan switch, vertical only  |
| <b>CA167</b>     | Thermostat cover for TA167, without fan or system switch                                   |
| <b>CA167-HOC</b> | Thermostat cover for TA167-007, with system H/O/C switch and no fan switch                 |
| <b>CB155</b>     | Thermostat cover for TB155-048, without fan or system switch, vertical only                |
| <b>CB155-SNF</b> | Thermostat cover for TB155-048, with system On/Off switch and no fan switch, vertical only |
| <b>KTR24</b>     | Remote room thermistor sensor  |
| <b>ST-U24</b>    | 10K Ω Universal sensor with box  |