

# Quest T-stat Model 200 Lead/Lag Controller

Optimize Operation & Reduce Energy Consumption  
Part Number: 150966-3



The Quest T-stat Lead/Lag Controller is a smart control system designed to replace conventional lead/lag controllers that do not offer wide temperature control windows for advanced optimization of HVAC operation. The T-stat LLC works with most standard HVAC systems whether they have built-in economizers or no economizers to control up to two stages of cooling per HVAC system. The T-stat LLC provides lead/lag operation with automatic switching based upon time interval and a comfort/occupied mode to change the temperature setpoints for a defined time period.

The compact controller includes separate alarm output contacts for high and low temperature alarms and an input to inhibit HVAC operation. The inhibit function can be used to coordinate with separate stand-alone airside economizer systems. The system has a built-in 2-line by 16-character display for status monitoring of the current temperature and operating mode of the HVAC equipment. All setpoints are factory preset per the customer's requirements and are not field changeable.

## Specifications

**Quest Part number:** 150966-3

**Outputs:** Eight solid state digital outputs designed to switch 24VAC

**Alarm Output:** 2 normally closed relays for high temp and low temp

**Input:** Thermistor temperature sensor  $\pm 1^\circ\text{F}$  (0.5°C)  
Dry Contact to inhibit HVAC operation

**Display:** LCD backlit 2-line by 16-alphanumeric character display

**Keypad:** Five-button; directional arrows plus enter button

[www.questcontrols.com](http://www.questcontrols.com)

Tel: (941) 729-4799, Fax: (941) 729-5480

208 9th Street Drive West • Palmetto, Florida 34221

## Features

- Controls two HVAC systems for Fan, Cool Stage 1, Cool Stage 2 and Heat.
- Powered from both HVAC's 24VAC transformers.
- Automatic lead change based on time.
- LCD display for current operating mode and shelter temperature readings.
- Comfort mode to allow "Occupied" temperature settings for defined time period.
- High & Low temp alarm contacts.
- Five button keypad for navigation to other status screens.
- Built-in zone temperature.
- The setpoints are factory set to customer's specifications and are not field changeable.

| Setpoint Name                       | Value     |
|-------------------------------------|-----------|
| Normal mode - Lead cool stage 1 on  | 80        |
| Normal mode - Lead cool stage 2 on  | 82        |
| Normal mode - Lag cool stage 1 on   | 84        |
| Normal mode - Lag cool stage 2 on   | 86        |
| Normal mode - All cooling off       | 75        |
| Normal mode - Lead heating on       | 45        |
| Normal mode - Lag heating on        | 43        |
| Normal mode - All heating off       | 50        |
| Comfort mode - Lead cool stage 1 on | 76        |
| Comfort mode - Lead cool stage 2 on | 78        |
| Comfort mode - Lag cool stage 1 on  | 80        |
| Comfort mode - Lag cool stage 2 on  | 82        |
| Comfort mode - All cooling off      | 71        |
| Comfort mode - Lead heating on      | 55        |
| Comfort mode - Lag heating on       | 53        |
| Comfort mode - All heating off      | 60        |
| Lead Switch time                    | 24 hours  |
| Comfort mode time                   | 1 hour    |
| Lead unit fan operation             | Automatic |
| High Temp Alarm                     | 88        |
| Low Temp Alarm                      | 40        |

**Mounting:** Wall mount directly or standard single gang electrical box

**Power:** 24VAC

**Enclosure:** 2-piece thermal molded plastic enclosure. All wiring is done on the mounted base and the controller is pull-off

**Ambient Operating Temp:** 23° to 131°F (-5° to 55°C), 0-95% RH non-condensing

**Size:** 5.32"W x 3.5"H x 1"D (135 x 89 x 25 mm)

**Weight:** 0.5 lb. (227 g)

