

Quest T-stat Model 100 Lead/Lag Controller

Optimize Operation & Reduce Energy Consumption



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 controls two single stage HVAC systems to provide lead/lag operation with automatic switching based upon time. 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.

Features

- Controls two single-stage HVAC systems for Fan, Cool and Heat.
- Power from both HVAC's 24VAC transformers.
- Automatic lead change every 24 hours.
- LCD display for current operating mode and shelter temperature readings.
- Comfort mode to allow "Occupied" temperature settings for one hour.
- 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 unit cooling on	80
Normal mode - Lag unit cooling on	84
Normal mode - All cooling off	75
Normal mode - Lead unit heating on	45
Normal mode - Lag unit heating on	43
Normal mode - All heating off	50
Comfort mode - Lead unit cooling on	76
Comfort mode - Lag unit cooling on	80
Comfort mode - All cooling off	71
Comfort mode - Lead unit 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

Specifications

Quest Part number: 150966-1

Outputs: Six solid state digital outputs designed to switch 24VAC

Input: Thermistor temperature sensor $\pm 1^\circ\text{F}$ (0.5°C)

Display: LCD backlit 2 line by 16 alphanumeric character display

Keypad: Five button directional arrows plus enter button

Mounting: Wall mount directly or standard single gang electrical box

Power: 24VAC

Enclosure: Two 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)

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