

# Quest Controls T-Stat Product Matrix

Feature	 Model 400 HVAC Controller	 Model 200 Lead/Lag Controller	 Model 100 Lead/Lag Controller
<b>Designed for:</b>	Facilities with multiple HVAC systems requiring coordination and operation through a networkable device to reduce operating costs associated with cooling and to increase reliability	Facilities with two HVAC units requiring a low cost stand-alone lead/lag controller to optimize runtime and reduce energy consumption while providing basic temperature alarming	Facilities with two single-stage HVAC units requiring a low cost lead/lag controller to optimize runtime and reduce energy consumption
<b>Types of HVAC Controlled</b>	Single-stage, two-stage, or heat pumps	Two-stage HVAC Systems or single-stage with integrated economizers	Single-stage HVAC Systems
<b>Economizer Control</b>	Direct control of the economizer damper using an analog output or integrated enthalpy controllers in the HVAC unit. Uses Quest's patented economizer control algorithm	Supports integrated economizer modules for single-stage HVAC units	None
<b>Supply Fan Control</b>	On/off based on demand or can be programmed to run the lead fan continuously. Supports variable speed supply fans using an analog output	On/off based on demand or can be programmed to run the lead fan continuously	On/off based on demand or can be programmed to run the lead fan continuously
<b>Number of HVAC Units Controlled</b>	One HVAC Unit	Two HVAC Units	Two HVAC Units
<b>Lead/Lag</b>	Yes - When networked with other Model 400 units to the ESB2 main control system	Yes - Programmable for time duration	Yes - Programmable for time duration
<b>Comfort Mode</b>	Yes - Programmable for time duration and control temperature	Yes - Programmable for time duration and control temperature	Yes - Programmable for time duration and control temperature
<b>Alarming</b>	On the display and through network connection. Alarms for high/low temperature, HVAC lockout, fan failure, cooling performance, and heating performance	On the display and alarm contact closures for high/low temperature	None
<b>Display</b>	2x16-character LCD display for current status and program menus	2x16-character LCD display for current status and program menus	2x16-character LCD display for current status and program menus
<b>Keypad</b>	5-button keypad to navigate to additional status displays, program changes, and local user requests (comfort mode, clear alarm, lead enabled, etc.)	5-button keypad to navigate to additional status displays, program changes, and comfort mode enable	5-button keypad to navigate to additional status displays, program changes, and comfort mode enable
<b>Security</b>	Password-protected front display that can also be remotely locked to prevent changes	Password-protected front display for setting changes or can be factory configured with no field changes	Password-protected front display for setting changes or can be factory configured with no field changes
<b>Power</b>	24VAC from HVAC unit and separate optional 24VDC	24VAC from HVAC units	24VAC from HVAC units
<b>Communications</b>	Modbus RTU to communicate to Quest's ESB2 or any Modbus polling device. All settings can be configured remotely along with limiting access to the front panel	Stand-alone	Stand-alone
<b>Zone Sensors</b>	Built-in with support of a second remote zone sensor	Built-in zone sensor	Built-in zone sensor
<b>Additional Sensing Capabilities</b>	<ul style="list-style-type: none"> <li>• Supply/discharge air</li> <li>• Mixed air temperature</li> <li>• HVAC current draw</li> <li>• Fan proof of run</li> <li>• HVAC lockout</li> </ul>	Input for HVAC shutdown	None