

# Quest Control T-Stat Product Matrix

Feature	Model 600 HVAC Controller 	Model 400 HVAC Controller 	Model 200 HVAC Controller 	Model 100 HVAC Controller 
<b>Designed for</b>	Facilities with two HVAC units requiring a low-cost stand-alone lead/lag controller to optimize runtime and reduce energy consumption along with alarming through outputs and Modbus. Networkable to combine additional units for larger sites.	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	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>	Supports integrated economizer modules for HVAC units. Uses Quest's patented economizer control algorithm	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	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>	Two HVAC Unit	One HVAC Unit	Two HVAC Units	Two HVAC Units
<b>Lead/Lag</b>	Yes - as stand-alone Or networked with other Model 600 units to the ESB2 main control system	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	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, control voltage loss and smoke.	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	2x16-character LCD display for current status and program menus
<b>Keypad</b>	7-button keypad to navigate to additional status displays, program changes, and local user requests for comfort mode, and lead switch	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 that can also be remotely locked to prevent changes	Password-protected front display that can also be remotely locked to prevent changes	Password-protected front display that can also be remotely locked to prevent changes
<b>Power</b>	24VAC from both HVAC units and 24/48VDC simultaneously	24VAC from HVAC unit and separate optional 24VDC	24VAC from both HVAC units	24VAC from both HVAC units
<b>Communications</b>	Modbus RTU. Status of all points plus settings can be configured remotely along with limiting access to the front panel. Bluetooth -Status plus configurable via Quest's Mobile App	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>	Supports two zone temperature sensors, an outside air sensor, and an optional humidity sensor	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>HVAC control voltage loss</li> <li>HVAC lockout</li> <li>Econ status of HVAC</li> <li>Smoke detector</li> <li>Hydrogen gas</li> <li>Generator Running</li> </ul>	<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