

The Series 121 thermistor controller and the Series 122 thermocouple controller incorporate highly reliable state-of-the-art electronic circuitry in a very economical open board design. Their small size and very low cost make them the ideal choice for cost sensitive OEM applications requiring the accuracy, reliability and versatility only available in an electronic control.

HIGHLIGHTS

- very low cost
- small footprint 3.4" x 2.5" (121) 3.625" x 2.625" (122)
- heavy duty 30 AMP relay output
- UL Class 2 low voltage sensor circuit
- full two-year parts & labor warranty

FEATURES

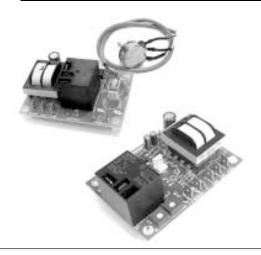
- 115/230VAC field selectable input
- SPST 30 AMP relay output
- ON-OFF control mode
- Open-On-Rise control action (heating)
- Local SP adj
- 1/4" QC field terminations

OPTIONS

- 24VAC input voltage
- SPDT relay or DC outputs
- Close-On-Rise control action (cooling)
- Fixed or remote SP adj
- Screw terminals for TC connection
- Snap track mounting

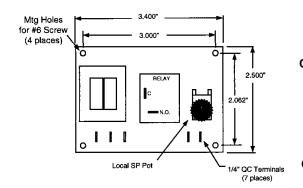
PRODUCT applications

- Gas Analyzers
- Water Heaters
- Packaging Machines
- Laboratory Baths
- Refrigerators & Freezers
- Environmental Chambers
- Commercial Cooling
- Appliances



BARE BOARD TEMPERATURE CONTROL

specifications



Power Input: 115/230VAC +/-10%, 50/60Hz, 3VA max.

24VAC +/-10% optional

Control Output: 30Amp SPST relays, UL rated 20Amps

resistive and 1Amp pilot duty @ 120/240VAC for 100,000 cycles; SPDT relays or 24VDC to

drive external SSRs optional

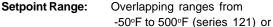
Control Mode: On-Off with 3°F to 4°F hysteresis standard;

Special hysteresis values optional

Control Action: Open-on-Rise (heating) standard; Close-on-Rise (cooling) optional

Sensor Type: NTC Thermistor *121 only

"J", "K", "T" or "E" thermocouple *122 only



-100°F to 2500°F (series 122)

Setpoint Adj: Fixed setpoint (factory calibrated) with trim

pot for field adjustment standard; local or remote setpoint pot optional

Compensation: Automatic cold conjunction compensation

(thermocouple sensor only)

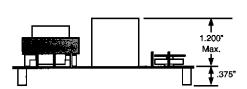
Sensor Fault Output de-energizes with open or shorted

Protection: sensor or thermocouple break

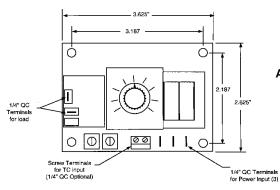
Amb. Oper. Temp: O°C to 70°C

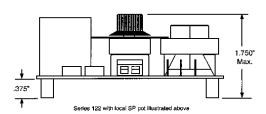
Oper. Relative

Humidity: 5 to 90% non-condensing



Series 121 with local pot illustrated above





BARE BOARD TEMPERATURE CONTROL

ordering information

