

Series 8 Temperature Controller

The Series 8 is a non-indicating analog UL/cUL Temperature controller.

Agency Approval: All versions are UL/CUL component recognized.

Power Input: The Series 8 can be wired to 110 or 220 VAC 50/60 Hz.

Sensor Input: A selection of ranges are available for J or K sensor input. Additional ranges and inputs are available as specials, consult factory.

Sensor Break: Relay contact opens (deenergize) on sensor break.

Output: The output is a 20 amps Max @ 120VAC resistive, S.P.D.T. Relay (N.O. / N.C.)

Control Action: Heating (open on rise), Cooling (close on rise) or Limit with remote manual reset.
ON/OFF control with jumper installed across terminals 12 & 13 Hysteresis fixed at 0.5% of range

Proportional Output: Prop. Band fixed at 2.5% of range
Cycle time fixed at 20 seconds

Mounting: Unit has dual mounting capabilities. Unit can be surface mounted typically.

Enclosure: Noryl

Setpoint accuracy is +/- 1 % of span.

Wiring:

This equipment is designed for installation in an enclosure. Dangerous voltages are present in this instrument. Care must be taken to ensure that maximum voltage rating specified are not exceeded. All wiring must conform to local codes and regulations.

For ON/OFF Control a jumper should be installed across the manual reset input terminals 12 & 13.

Power Input:

Verify power supply input voltage labeled on unit. Connect power to terminals 2 & 3 for 120 VAC or 1 & 3 for 220 VAC operation. Red LED on indicates unit powered.

Sensor input is located on terminals 11 & 12.

Terminal 11 is Positive leg input for thermocouple inputs. Terminal 12 is negative leg input for thermocouple inputs.

Relay Output:

Terminals 4 & 5 are closed when unit is calling for heat or cooling. Yellow LED is ON when load energized. Hysteresis is set at 0.5% of range.

Calibration: Calibration potentiometers are factory set for range supplied. NO FIELD CALIBRATION ADJUSTMENTS ARE REQUIRED.

Serviceable Parts: There are no serviceable parts associated with the unit. If troubleshooting identifies unit to be faulty, please contact factory for return.

Future Design Controls

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NOTE: Terminals

**7-10 are not used
make NO connections.**

**NOTE: On/Off
Control install
a jumper from
Terminals
12 to 13**

