

TEMPERATURE CONTROLLER

SPECIFICATIONS

SERIES 610

6-9-83 FLB



GENERAL:

The Series 610 Temperature Controller is packaged in a panel-mounted 1/8 Din case. The complete electronics is mounted on printed circuit boards and plugs into the panel-mounted case.

The controller utilizes a thermocouple sensor and provides time proportioning control of a resistance heater load. The controller features auto reset for operation at set point with varying load demands.

An electronic null meter is used to indicate actual process temperature relative to the set point.

SPECIFICATIONS:

A.C. Supply Voltage: 115/230 volts, 50/60 Hz., \pm 10%.

Power Consumption: Less than 6 V.A. at 115 volts, 60 Hz., exclusive of load power.

Control Mode: Heating control with time proportioning and automatic reset.

Cycle Time: Time proportioning approximately 1 second at 50% duty cycle.

Reset Time: Fixed, approximately 0.1 repeats per minute.

Proportional Band: Internally adjustable over the range of 5°F to 40°F. Factory set physically at mid-band.

Output Rating: 10 amps at 115/230 volts. Output turns on and off at zero crossing of A.C. line for minimum noise and stress on heater. Full 1 ampere rating applies up to 50°C.

Null Indicator: L.E.D. type that provides 10°F of indication in 2°F steps below and above set point.

Sensor: Thermocouple, Type "J" or "K".

Sensor Protection: Open thermocouple will turn off power to the heater.

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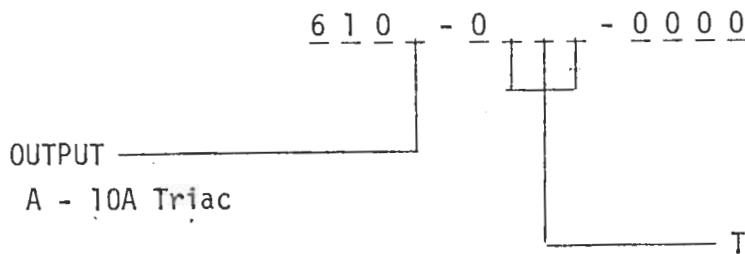
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Operating Ambient Temperature: 50°F to 130°F.

External Indicator Signal: Output is 0 to 1 mA for selected temperature span.

ORDERING INFORMATION



Temperature Range & Sensor Selection (Order Sensor Separately)

600 - 699 Thermocouple

Range Codes:

- (600: 0 to 250°F/°C, "J"
- (601: 0 to 600°F/°C, "J"
- (602: 0 to 1000°F/°C, "J"
- (603: 0 to 1000°F/°C, "K"
- (604: 0 to 2000°F/°C, "K"