TEMPERATURE CONTROLLER

FEATURES
Plug-in Design
Time Proportioning
Manual Reset
115/230V Operation
   (Field Selectable)
RTD, Thermistor, or
   Thermocouple Sensor
Relay Output
Power Indication
Load Power Indication
Heating or Cooling
   Mode Available

GENERAL
The Series 601 is a plug-in Din size temperature controller. The control mode is time proportioning with adjustable manual reset. Proportional band and manual reset are front panel adjustable. The control mode can be converted to on-off by installing an external jumper wire.

The controller is available with thermistor, thermocouple, or RTD sensor inputs. The output is a 10-ampere S.P.D.T. plug-in relay.

Front panel mounted LED's indicate when power has been applied to the controller and when power is being applied to the load. The plug-in design of the unit allows for easy access to make relay replacement or controller replacement a simple task.

SPECIFICATIONS:
CONTROL MODE:
   Time proportioning with adjustable manual reset. Note: The control mode may be converted to on-off by installing a jumper wire between terminals one and two on the barrier strip.

PROPORTIONAL BAND:
   Front panel adjustable. Typically covers the range of 5 to 50°F.

MANUAL RESET:
   Front panel adjustable. Corrects for control offsets over the full 50°F proportional band.

CYCLE RATE:
   Varies automatically when control is within proportional band. Typically 10 seconds minimum.

SENSOR: RTD, thermistor, or thermocouple.

OUTPUT:

INDICATOR LIGHTS:
   Long life L.E.D.'s.
   1) Power: Indicates line voltage is applied to the controller.
   2) Load: Indicates output relay is energized.

LINE VOLTAGE: 115/230 VAC, ±10%, ±20%, 50/60 Hz.

POWER CONSUMPTION: Less than 4 V.A.

OPERATING AMBIENT: 30 to 130°F.

SENSOR PROTECTION:
   RTD and Thermocouple Models — In the event of an open sensor, load power will be removed.
   Thermistor Sensor — In the event of a shorted sensor, load power will be removed.

ISOLATION:
   Thermocouple Models — T.C. input to line and load.
   RTD and Thermistor Models — Sensor and control circuitry are isolated from the line and the load.

SET POINT SHIFT W/LINE VOLTAGE:
   Typically ± 0.1% of span for a ± 10% change in line voltage.

SET POINT SHIFT W/AMBIENT:
   Thermocouple Models — Typically 10 microvolts/°F referred to the input.
   RTD and Thermistor Models — Typically ± 1°F.