Model 805 Controller

The Model 805 is an analog temperature controller.

Agency Approval: UL/CSA/CE

Power Input: 90-264 VAC, 50/60 Hz

Sensor Input: A selection of ranges are available for J, K or RTD sensor input. Additional ranges and inputs are available as specials, consult factory.
Accuracy is +/- 1% of span.

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

Output: Relay output is a 5 amps @ 240VAC resistive, S.P.D.T. Relay (N.O ./ N.C.)
Optional MA output is rated at 4/20 Ma max. Load 500 Ohm
SSRD output is a Pulsed 20VDC @20ma
SSR

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.

Power Input:
Verify power supply input voltage labeled on unit.
Connect power to terminals 8 & 9.
Power consumption is less than 5 VA.

Sensor input Thermocouple input Terminal 17 & 18.
Terminal 17 is Positive leg input for thermocouple inputs.
Terminal 18 is negative leg input for thermocouple inputs.
For RTD Terminal 19 & 18 for 2 wire. A jumper is then needed between 18 & 17.
When using a 3 wire RTD the 2nd "common" lead is wired to terminal 17.

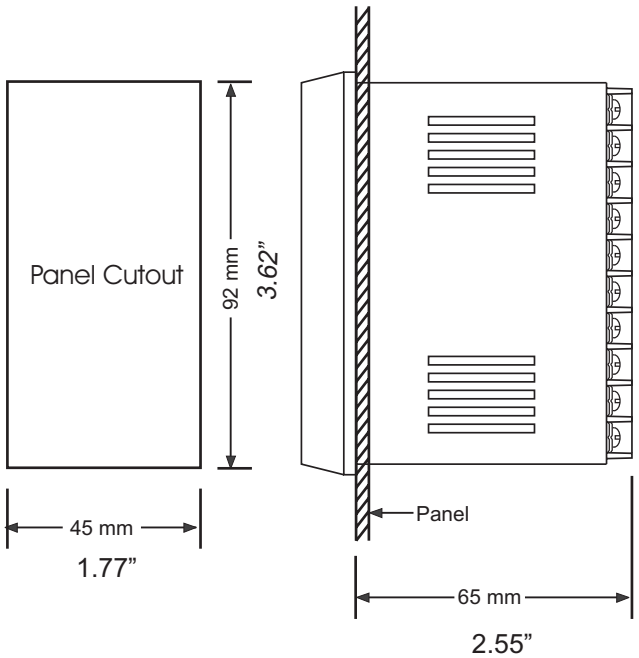
Main Output 1:
Relay / Ma wiring
Terminal 6 (Common), Terminal 5 (N.O.), Terminal 7 (N.C.)
Ma Output Option Terminal 6 + ma, Termina l 5 - ma
Output is set for Heating (reverse).
Output is fixed when ordered
On/offis fixed hystersis at 1% of span.
Time proportioning is fixed at PB= 2.2% of span.
Relay output cycle time fixed at 20 seconds.
SSRD output cycle time fixed at 1 second.

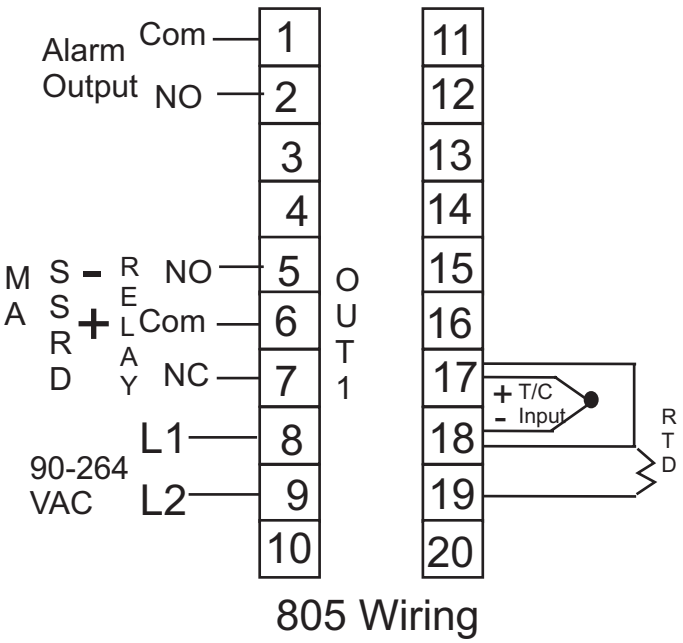
Alarm Output Option:
Alarm Option is a Deviation Alarm Only
Adjustable for +/- 10 % of Span
Alarm Relay rated at 2 amp @ 240VAC, resistive.

Manual Reset Adjustment:
The manual reset pot adjusts the output to allow for increase (+) output at setpoint or decrease (-) output at setpoint. Allow process temperature to stabilize. If process has settled out above setpoint adjust manual reset pot by turning CCW to decrease output. If process has settled out below setpoint adjust manual reset pot by turning CW.
Pot adjustments should be in small increments approximately 1/8th turn at a time. Allow 20 minutes between adjustments for temperature to respond to each adjustment.

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





805 Wiring