

# Model 905 Controller

The Model 905 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.

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

Output: The output is a 5 amps @ 250VAC resistive, S.P.D.T. Relay (N.O. / N.C.)  
Current output is 4/20 ma, 500 ohm max.

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 6 & 7.

Sensor input Thermocouple input Terminal 4 & 5.

Terminal 5 is Positive leg input for thermocouple inputs.

Terminal 4 is negative leg input for thermocouple inputs.

For RTD Terminal 3 & 4 for 2 wire. When using a 3 wire RTD the 2nd "common" lead is wired to terminal 5.

Relay / Ma Output:

Terminals 8 (common), Terminal 9 (N.O), Terminal 10 (N.C)

Terminals 8 + Ma, Terminal 9 - Ma

Relay/Ma output is set for Heating Output(reverse).

Output can be on/off, time or current proportioning.

On/offis fixed hysteresis at 1% of span.

Time/ MA 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.

Manual Reset Adjustment:

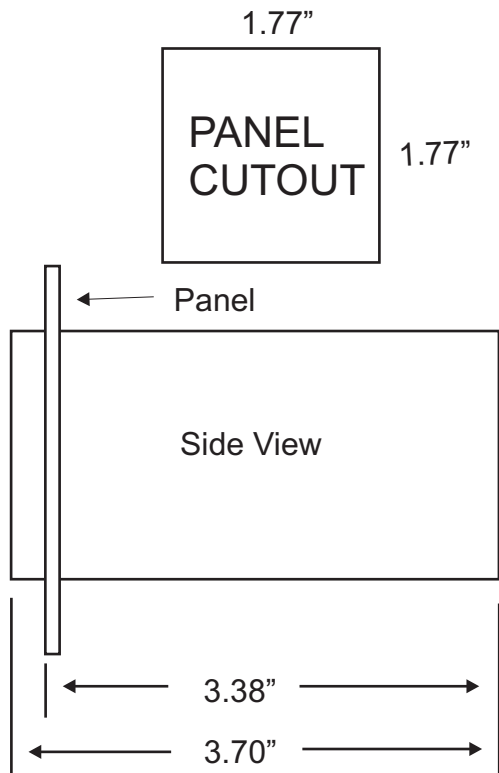
The manual reset pot adjusts the output to allow for increase (+) output at setpoint or decrease (-) output at setpoint.

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



## 905 Wiring

