

# Series 7L Limit Controller

The Series 7L is an FM Approved Limit Device non-indicating analog controller.

**Agency Approval:** All versions are UL/CUL component recognized and FM approved. UL# E197958

**Power Input:** The Series 7L can be specified as 110 VAC, 220VAC, 24VAC or 24VDC.

**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 @ 120VAC resistive, S.P.D.T. Relay (N.O. / N.C.)

**Alarm LED:** LED is ON when Limit setting is exceeded and output is NOT latched. LED goes out when reset to SAFE condition.

**Latching Relay reset:** The Series 7L comes standard with a local reset button and a remote reset input. When the setpoint is exceeded, the relay will latch in the N.C. Position [Terminals 4 & 5 OPEN]. The relay will remain latched until the temperature is below the setpoint and either the reset button is depressed or a momentary external dry contact is applied to the remote reset terminals. If contact closure is maintained to the remote reset terminal the unit will remain in reset condition, acting as an ON/OFF control.

**Mounting:** Unit has dual mounting capabilities. Unit can be mounted to a 35 mm DIN rail or surface mounted via the integral mounting feet.

**Enclosure:** Noryl

## 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 1 & 2. For VDC 1 +, 2 -

**Sensor input** is located on terminals 6 & 7.

Terminal 6 is Positive leg input for Thermocouple inputs.

Terminal 7 is negative leg input for thermocouple inputs.

For RTD only 2 wire input is required. When using a 3 wire RTD the 2 "common" leads can be wired to terminal 7.

## Relay Output:

Terminals 4 & 5 are closed when unit is in "safe" condition.

Upon loss of sensor or setpoint exceeded, terminals 4 & 5 open and terminals 5 & 3 close.

Do not exceed load rating of limit relay.

**Wiring Terminals:** finger safe.

**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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Technical Support

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