

Model 60 Low Cost Analog Thermostat Temperature Control

The Love Controls Model 60 Analog Thermostat is an economical, reliable, solid state, temperature control with an accuracy of better than 1/2%. The Love Controls Analog Thermostat has been specifically designed as

an accurate electronic alternative and/or replacement for pneumatic-type thermostats (bulb and capillary). The control electronics are packaged in a rugged panel-mount enclosure, offering additional protection from environmental conditions.

The Love Controls Analog Thermostat is designed for use in commercial cooking equipment, packaging machinery, sterilizers, test chambers and photographic processing systems.

Ideal for replacement of bulb-type thermostats, features include temperature ranges from 0° to 2000°F, ON/OFF temperature control with integral set point adjustment, field or factory selectable (120/240 VAC) input power and choice of thermocouple or Platinum RTD sensor inputs.



STANDARD FEATURES

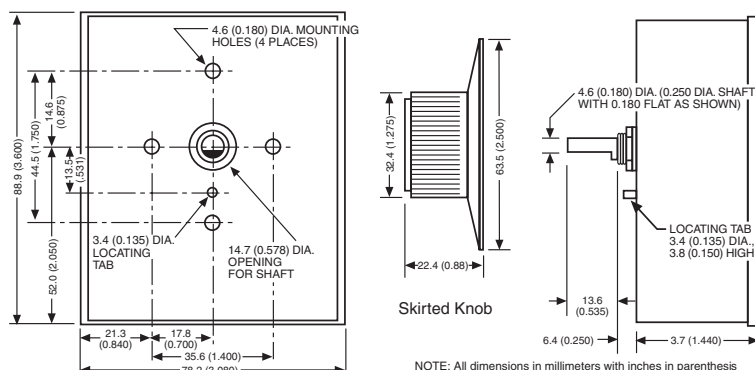
- Surface or panel mount
- Fail-safe: shuts down on sensor failure
- Accepts platinum RTD or thermocouple sensor
- Reliable solid state design
- Local or fixed settings

Inputs

INPUT TYPE	RANGE °F	RANGE °C
Type J Thermocouple	0 to +250	Not Available
Type J Thermocouple	0 to +500	Not Available
Type J Thermocouple	0 to +1000	Not Available
Type K Thermocouple	0 to +1000	Not Available
Type K Thermocouple	0 to +2000	Not Available
100 Ω Plt. 0.00385 DIN ¹ RTD	-50 to +200	Not Available
100 Ω Plt. 0.00385 DIN ¹ RTD	0 to +250	Not Available
100 Ω Plt. 0.00385 DIN ¹ RTD	0 to +500	Not Available
100 Ω Plt. 0.00385 DIN ¹ RTD	0 to +1000	Not Available

Note: Range is set at Factory. Select Order Code for desired range.

DIMENSIONS



HOW TO ORDER

To order, specify part number by filling the boxes with the appropriate numbers. If no options are desired, leave those boxes blank.

60 - -

Control Mode

1 = On- Off / Limit
2 = Time Proportioning

Set Point

L = Local

Range and Sensor

1T = -50 to +250°F, Type T
2J = 0 to 250°F, Type J
3J = 0 to 500°F, Type J
4J = 0 to 1000°F, Type J
4K = 0 to 1000°F, Type K
5K = 0 to 2000°F, Type K
1P = -50 to +250°F, DIN RTD
2P = 0 to 250°F, DIN RTD
3P = 0 to 500°F, DIN RTD
4P = 0 to 1000°F, DIN RTD

Options

0 = None

SPECIFICATIONS

(at 25° unless otherwise noted)

Line Voltage:

120 or 240 VAC + 10%, - 15%; 50/60 Hz

Output Switching Device:

SPST normally open relay: 10 A at 120/240 VAC resistive, 50 VA inductive, 125 VA pilot duty at 120/240 VAC.

Temperature Range/Sensor Types:

Refer to "How to Order" for specific temperature ranges.

Thermocouple: -20°C to 1100°C

(-4°F to 2012°F).

Platinum RTD: -50°C to 500°C

(-58°F to 932°F).

Set point:

Calibration Accuracy: Better than 1% of span at 25°C (77°F) and at rated line voltage.

Calibration Method: Offset and span trimpots factory preset

to adjust process temperature

to direct-reading panel-mount Scale Plate.

Set point Stability: Typically less than

1°C/10°C (0.56°F/5.67°F) ambient change; ± 0.01% of span/ 1% change in line voltage.

Set point Adjustment:

Local set point adjustment (for fixed set point contact factory).

Cold Junction Compensation: Automatic with thermocouple units.

Control Mode:

On/off differential: 1°C (2°F) typical.

Operator Interface:

Set point Pot. Integral: Dual °F/ °C scales calibrated to compensate for sensor non-linearities.

Operating Ambient:

0°C to 55°C (32°F to 130°F)

standard.

0 - 90% R.H., non-condensing.

Weight: (2.5 kg) 0.5 lb.

Terminals:

6.4 mm (0.25") quick connects.

Sensor Protection:

RTD: Open or shorted sensor de-energizes load.

Thermocouple: Open sensor de-energizes load.