



## Model 600 Series Thermostats



The electric heat industry has always been looking for a thermostat to perform as good as a low voltage thermostat. Now Invensys offers a new line voltage thermostat with the performance of a low voltage control.

These thermostats feature fast, efficient, snap-action switching and an optional heat anticipator which assures closer and more balanced temperature regulation. For example, the M611/M612 anticipated thermostats control equal to or better than a typical low voltage thermostat.

Invensys/Mears line voltage bimetal thermostats deliver the kind of temperature regulation that satisfies the most demanding users. The bimetal thickness in the new M600 Series has been increased by 33% to give greatly improved thermal performance and to minimize damage during installation. A new cover design allows ventilation on all sides to enhance sensitivity to room temperature changes.

Invensys thermostats are backed by Mears' long-standing reputation for building the best in heating controls. They have all the features you've come to expect from a company whose name is synonymous with excellence in the design and manufacture of high quality electric heat controls.

M600 Invensys models are universal replacements for many other manufacturers' line voltage thermostats and can be used to retrofit most existing electric heat thermostats. Individual thermostats within the series are available to handle specific applications such as cooling and heating.

Available in White or Ivory.

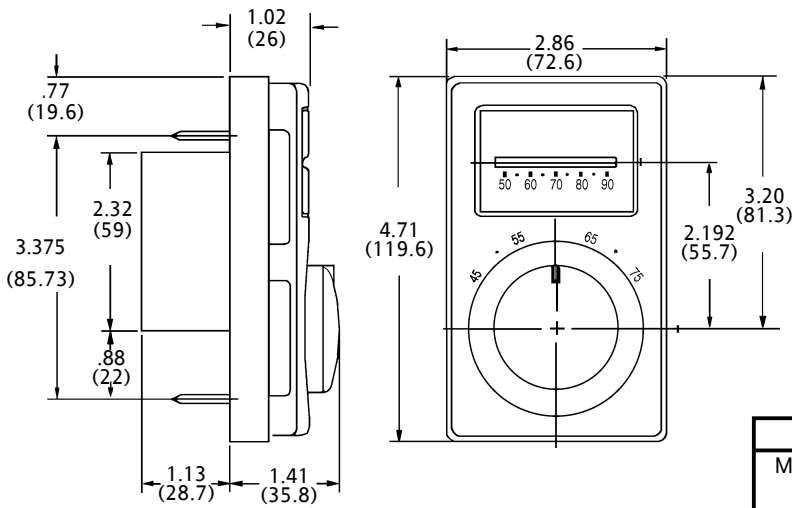
Temperature Indicator (shown top left) is optional.

Temperature Range: Standard 45°F to 75°F

Type of Sensor: Bimetal. Type of Switch: Snap Action.

Listed with UL and CSA - CSA Performance Certified.

Standard Pack: 25



Dimensions for the M600  
Invensys Thermostats.

The thermostat with  
temperature indicator is  
shown.

(Dimensions in  
parenthesis are millimeters.)

### Electrical Ratings

Standard 22 Amp Switch:

- UL: 22 Amps,  
120/240 VAC Non-Inductive
- 18 Amps,  
277 VAC Non-Inductive
- 1/5 HP, 120/240 VAC
- 125 VA Pilot Duty

- CSA: 17 Amps,  
120/240 VAC Non-Inductive
- 125 VA Pilot Duty

Optional 25 Amp Switch, -25 Series:

- UL: 25 Amps, 120/240 VAC Non-Inductive
- 22 Amps, 277 VAC Non-Inductive
- 1/4 HP, 120 VAC
- 1/3 HP, 240 VAC
- 125 VA Pilot Duty

Optional 25 Amp Switch, -25H Series:

- UL: 25 Amps, 125/250 VAC Non Inductive
- 22 Amps, 277 VAC Non Inductive
- 1 HP, 125 VAC
- 2 HP, 250/277 VAC
- 125 VA Pilot Duty

Single Line Thermostats	
M601	The simplest, most economical method of controlling electric heat. Switch breaks only one leg of the circuit.
M601C	Designed for cooling applications.
M601-25	25 Amp version of the M601
M601-25H	25 Amp for heavy duty ratings.
M611	Breaks both legs of the circuit in the off setting. Controls one heating load only. Meets all electrical codes.
M611-25	25 Amp version of the M602.
M611-25H	25 Amp for heavy duty ratings.
Double Line Thermostats	
M602	Uses parallel heat anticipation with a three-wire hookup. Like the model M601 in every other way.
M602-25	25 Amp version of the M611.
M602-25H	25 Amp for heavy duty ratings.
M612	Uses a heat anticipator. Like the model M602 in every other way.
M612-25	25 Amp version of the M612.
M612-25H	25 Amp for heavy duty ratings.
Special Application Thermostats	
M600C (SPDT)	Can control either cooling OR heating. Cannot be used for both heating and cooling unless installed with an extra switch to handle the changeover between the cooling and the heating circuits.
M600M (2-SPST)	Modulation or two stage thermostat. Used to control two separate heating circuits and reduce input during light load periods. In the second stage, it is activated when the temperature drops to approximately 2° below the turn-on temperature of the first stage.
M600S (2-SPST)	Double circuit thermostat. Provides simultaneous switching control of two heating loads. Switches are calibrated to operate approximately the same temperature. Used where the total load exceeds single switch capacity, where two thermostats are impractical, or where the circuit can be divided into equal or nearly equal loads.

**Limited Warranty**

Invensys warrants that product will be free from defects in material and workmanship for a period of thirty-six months from the date of manufacture.

This warranty is in lieu of all other warranties expressed or implied, including without limitation those of merchantability and fitness for a particular purpose or application.

Invensys' obligation, in the event of a breach of warranty, is limited to repair or exchange of the Invensys product and does not include replacement costs. Invensys' liability under this warranty shall not exceed the cost of the product. Upon expiration of the warranty, Invensys shall have no further liability.

Invensys reserves the right to add or delete products, and to change the design, dimensions, and/or specifications shown here at any time without notice.

It is the responsibility of the person applying this product to ensure that it is utilized in a safe manner, and that it is applied in accordance with any and all relevant independent and industry testing agencies, and also applied in accordance with the appropriate federal, state, and/or local laws and codes.