

T80 Series

# Proportional Thermostat



T80

## Description

These thermostats have a vapor-pressure temperature sensing element for maximum sensitivity. Temperature increases cause

liquid to turn to vapor, which causes a positive expansion of the bellows type sensing element. The bellows displacement is then directly used to position precision-wound potentiometers through a lever mechanism.

The output may be 135 or 1000 ohms depending on the model. A sturdy steel cover provides maximum protection of the enclosed mechanism.

## Features

- attractive styling blends into any decor while still maintaining durable steel construction
- adjustable throttling range models provide "on-the-job" throttling range selection
- large, coded, screw-type terminals for simplified field installation

- screwdriver type setpoint adjustment (through top of thermostat cover) eliminates knobs or levers on outside of control and tends to keep unauthorized personnel from tampering with the setting

## Applications

These wall thermostats position M100 Series Motor Actuators for the control of air dampers, valves, and similar devices in heating, air conditioning, and cooling applications. They also control series proportional sequences for staging of heating, cooling, or combination heating-cooling.

## To Order

Specify the code number from the following selection chart.

## Selection Chart

Code Number	Throttling Range °F		Output Signal	Control Mode	Scale
	Fixed	Adjustable			
T80ABA-1	—	3-8°F	135 ohms	One potentiometer	60-80°F
T80ABA-4	3°F	—	135 ohms	One potentiometer	60-80°F
T80ABA-19	—	3-8°F	1000 ohms	One potentiometer	60-80°F
T80ACA-1	—	3-8°F	135 ohms	Two potentiometers in unison	60-80°F

## Specifications

T80 Series Proportional Thermostat	
<b>Cover</b>	0.040 in. (1mm) steel, with baked on "tawny silver" finish. Faceplates are dark brown and light brown with aluminum numbers and graduations. Allen-head screws supplied as standard.
<b>Electrical Rating</b>	Low voltage only. 135 ohm potentiometers have a two watt capacity.
<b>Scale Range</b>	Adjustable from 60 to 80°F (15 to 25°C)
<b>Shipping Weight</b>	1.3 lbs (0.59 Kg)
<b>Throttling Range</b>	Fixed or adjustable