

T600xxP-2 Series

Programmable Thermostats

Description

The T600 Series of programmable thermostats are specifically designed for control of commercial heating and cooling equipment such as rooftop units (with and without economizers), heat pumps, and single and multi-stage equipment. The 7-day, 2- or 4-event thermostats are easy to set up and program through the use of a plain text menu driven backlit display that walks you through the programming process.

The T600 Series of programmable thermostats includes four models:

- Single-stage (T600HCP-2)
- Multi-stage (T600MSP-2)
- Heat Pump (T600HPP-2)
- Economizer (T600MEP-2)

All thermostats use a unique proportional control algorithm that virtually eliminates temperature offset associated with traditional differential-based thermostats.

Features

- **Backlit Liquid Crystal Display (LCD)** provides real-time control status of the environment in easy-to-read, plain text messages with constant backlight that brightens during user interaction.
- **Simplified Temporary Setpoint Adjustment** enables user to change the temporary setpoint by only pressing UP/DOWN arrow key(s).
- **Five Easy-to-Use Interface Keys** allow for easy programming and configuration of the thermostat's many options (eliminates the need for DIP switches).
- **Three Light-Emitting Diodes (LEDs)** provide fan, heating, and cooling status at a glance.
- **Two Digital Inputs** provide additional inputs for service or filter alarms, remote Night Setback (NSB), or remote override.
- **Configurable Auxiliary Output** equipped with a configurable output that operates in coordination with the programmed schedule.
- **Over 20 Configurable Parameters** enable the thermostat to adapt to any application.



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Accessories

Code Number	Description
SEN-600-1	Remote Indoor Temperature Sensor
SEN-600-2	Outdoor Air Temperature Sensor
SEN-600-3	Duct Mount Temperature Sensor
SEN-600-4	Remote Indoor Temperature Sensor with Occupancy Override Button and LED

Selection Chart

Code Number	Description	Applications
T600HCP-2	Single-stage (One Heat, One Cool)	Fan Coil Units, Unit Heaters, and Single-Stage Packaged Heating/Cooling Equipment
T600MSP-2	Multi-stage (Two Heat, Two Cool)	Multi-Stage Packaged Heating/Cooling Equipment
T600HPP-2	Heat Pump	Heat Pump with up to 3 Heating/2 Cooling Stages
T600MEP-2	Multi-Stage with Economizer Control	Packaged Rooftop Units with Economizers

Technical Specifications

T600 Series Programmable Thermostats	
Power Requirements	20 to 30 VAC, 50/60 Hz, 2 VA at 24 VAC nominal, Class 2
Relay Contact Rating Maximum Inductive	1 ampere with in-rush surges up to 3 amperes, 30 VAC maximum, Class 2
Digital Inputs	Relay dry contact only across the C terminal to DI1 and DI2
Economizer Output	0 to 10 VDC into 2 K ohm resistance minimum (T600MEP-1 only)
Thermostat Measurement Range	-40 to 122°F (-40 to 50°C)
Outdoor Air Temperature Indication Range	-40 to 122°F (-40 to 50°C)
Control Range	Cooling: 54 to 100°F (12 to 37.5°C) in 1/2 degree increments Heating: 40 to 90°F (4.5 to 32°C) in 1/2 degree increments
Minimum Deadband	(Between heating and cooling) 2F° or 1C°
Ambient Operating Conditions	32 to 122°F (0 to 50°C); 0 to 95% RH noncondensing
Ambient Storage Conditions	-22 to 122°F (-30 to 50°C); 0% to 95% RH noncondensing
Dimensions (H x W x D)	4.94 x 3.38 x 1.13 in. (125 x 86 x 29 mm)
UL and cUL Listing	File E27734 with CCN's XAPX (US, UL 873) and XAPX7 (Canada, CSA C22.2 No. 24)