HVAC CONTROLS

RESIDENTIAL PROGRAMMABLE THERMOSTAT T8600 SERIES CHRONOTHERM[®]IV

DESCRIPTION

The **T8600 Series** is a seven-day programmable, H/C thermostat for Proportional plus Integral (PI) control of standard or heat pump residential air handler applications. Controls are provided for both fan and system switching. This thermostat may be configured for °F or °C display with push-button set point adjustment and optional OSA temperature display. The fan switch offers auto/on control, and the system switch enables heat-off-cool-auto operation.

FEATURES

- Programmable seven-day set back control
- 1H/1C, 2H/2C, or heat pump models
- Simple keypad controls
- System and fan switches
- Temperature in °F or °C
- Digital backlit display
- Power-interrupt protection (no batteries)
- 12- or 24-hour clock
- Daylight savings button
- PI control
- Adaptive intelligent recovery (optimal start)
- Heat/Cool display indication
- Temporary hold temperature button
- White or taupe color



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Adjustable deadband

NEMi

- Adjustable set point limits
- Adjustable display offset
- Adjustable cycle time

SPECIFICATIONS

Power	24 VAC ±15%, 6 VA, 50/60 Hz	System switch	Keypad H/O/C/Auto
Power fail	Permanent program retention,	Fan switch	Keypad on/auto
	30 min. time and day retention	Set point	Adjustable with buttons
Output	24 VAC for heat/cool/fan	Cooling	45° to 99°F (7° to 37°C)
Switching	Fan 0.5A, heat/cool 1.5A	Heating	40° to 90°F (4° to 31°C)
Ambient	40° to 110°F (4° to 43°C)	Control	Proportional + Integral (PI)
	5% to 90% RH noncondensing	Differential	1°F (0.55°C)
Enclosure	Taupe or white color, IP30, plastic	Dead band	Adjustable 3° to 10°F (1° to 5°C),
Temp display	LCD 0.44" (1.1 cm), ±1°F (0.5°C)		3°F factory setting
Wiring	Terminals for 18-AWG wire	Min off time	Adjustable 0, 1, 2, 3, 4, 5 min.,
Wall mounting	Direct or horizontal 2 x 4 box		5 min. factory setting
Clock	12 or 24 hour, ±1 min./month	Dimensions	3.75"H x 6.1"W x 1.56"D
			(8.9 x 15.4 x 40 cm)
		Weight	0.85 lb (0.38 kg)
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TERMINAL DESIGNATIONS AND DESCRIPTIONS

Terminal Designation	Typical Connection	Terminal Designation	Typical Connection
В	Heat damper motor, changeover valve	R	24 VAC system or heat transformer
С	Common connection	RC	24 VAC cooling transformer
E	Emergency heat	W, W1	First-stage heating
G	Fan relay	W2	Second-stage heating
L	LED light	X1, X2	LED lights
0	Cooling damper motor, changeover valve	Y, Y1	First-stage cooling
OT, OT	Outside air sensor termination	Y2	Second-stage cooling

INSTALLATION / MOUNTING

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The base plate is mounted directly to the wall or 2 x 4 horizontal back box. Use 18-AWG wire and terminate as shown above. Then, top hook and snap down the thermostat electronics. No leveling is required.

PERFORMANCE CHARTS

The thermostat control uses the set point as displayed for PI control of heating and cooling and an adjustable deadband between the set points. The fan is controlled by demand for H/C, programmable or continuous, via the soft selector key, and displayed on the LCD. System control is selectable for heat, cool, off, or automatic, which engages the H/C automatically if mechanical heating or cooling is needed and is displayed on the LCD.

ORDERING INFORMATION

MODELDESCRIPTIONT8600D2028*1H/1C Conventional, Fan (auto/on), System (heat-off-cool-automatic), TaupeT8600D20691H/1C Conventional, Fan (auto/on), System (heat-off-cool-automatic), WhiteT8624D2004*2H/2C Conventional, Fan (auto/on), System (heat-off-cool-automatic), TaupeT8624D20122H/2C Conventional, Fan (auto/on), System (heat-off-cool-automatic), TaupeT8611G2002*2H/1C Heat pump, Fan (auto/on), System (heat-off-cool-automatic), TaupeT8611G20282H/1C Heat pump, Fan (auto/on), System (heat-off-cool-automatic), TaupeT8611G20283H/2C Heat pump, Fan (auto/on), System (heat-off-cool-automatic), WhiteT8611M20253H/2C Heat pump, Fan (auto/on), System (heat-off-cool-automatic), White

* Normally stocked item

RELATED PRODUCTS

C7089B1000 207396A 207396B OSA sensor Replacement door, taupe Replacement door, white