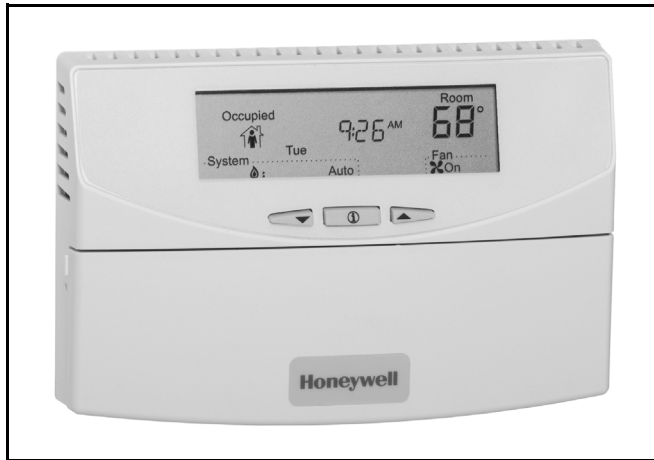


## T7350

# Commercial Programmable Thermostat

### FOR SINGLE- OR MULTI-STAGE CONVENTIONAL/HEAT PUMP SYSTEMS

#### SPECIFICATION DATA



## APPLICATION

The T7350 Commercial Programmable Thermostat controls 24 Vac commercial single zone heating, ventilating and air conditioning (HVAC) equipment. The T7350 consists of a thermostat and subbase. The thermostat includes the keypad and display for 7-day programming. The subbase includes equipment control connections. The subbase mounts on the wall and the thermostat mounts to the subbase.

## FEATURES

- Typically used in buildings (including: restaurants, shopping malls, office buildings and banks) under 55,000 square feet.
- For single zone rooftop units, split systems, heat pumps or hot/chilled water systems.
- 7-day programming.
- Two Occupied and two Not Occupied periods per day.
- Thermostat Interface Module (TIM) connections to thermostat from PDA for advanced configuration, programming, keypad lockout, etc. changes can be made with thermostat mounted.
- Individual heat and cool setpoints available for Occupied and Not Occupied periods.
- P+I+D control minimizes temperature fluctuations.
- Recovery ramp control automatically optimizes equipment start times based on building load.
- Intelligent Fan™ feature energizes fan continuously in the Occupied periods. Fan can also be configured for conventional heat or electric heat fan operation.
- Convenient overrides allow temporary setpoint changes.
- Keypad multi-level lockout available with all models.
- Remote sensor capability for temperature (including outdoor air and discharge air) and humidity sensors.
- Auxiliary subbase contact typically interface with a Honeywell Economizer System (for total rooftop control integration) or act as dehumidification output.
- Universal Versaguard™ Thermostat guards available.

## Features Available via PDA Configuration

- 365 day clock with holiday programming.
- Automatic Daylight Saving Time adjustments.
- Selectable dehumidification limit control.
- Occupancy input to control standby setpoint.
- Additional standby period used in low traffic areas.
- Sequential start option.
- Discharge air high/low limits.
- Selectable recovery ramp.
- Ambient lockout (with outdoor sensor).



# SPECIFICATIONS

**IMPORTANT**

The specifications given in this publication do not include normal manufacturing tolerances. Therefore, this unit might not exactly match listed specifications. This product is tested and calibrated under closely controlled conditions; minor performance differences can be expected if those conditions are changed.

**Models:** See Table 1.

**Dimensions:** See Fig. 1.

**Finish (color):** Trident White.

**Batteries:** No batteries required.

**Table 1. T7350 Thermostat Features.**

Model	Applications	Maximum Stages <sup>a</sup>		Features
		Heat	Cool	
T7350A	Conventional or Heat Pump	1 <sup>b</sup>	1 <sup>b</sup>	
T7350B		2 <sup>b</sup>	2 <sup>b</sup>	Outdoor, Discharge Air Capability
T7350D		3 (2)	3 (4)	Humidity, Occupancy, Outdoor, Discharge Air Capability

<sup>a</sup> All models are down-selectable and can be configured to control fewer stages than the maximum allowed.

<sup>b</sup> One extra stage (of either heat or cool) can be configured using the auxiliary relay.

**Mounting Means:**

Mounts on subbase.

Subbase Mounts On:

Wall: Using two 5/8 in. long #6-32 screws (included).

Outlet Box: Using sheet metal screws.

**Electrical Ratings:**

Power: 24 Vac, 50/60 Hz.; 20 to 30 Vac, 50/60 Hz.

Input:

Temperature: 20K ohms.

Humidity: 0-10 Vdc.

Outdoor: 3000 PTC.

Discharge Air: 20K ohms.

All Relay Outputs (at 30 Vac):

Running: 1.5A maximum.

Inrush: 7.5A maximum.

NOTE: Relays are N.O. Single-Pole, Single-Throw (SPST).

**System Current Draw (without load):**

5 VA maximum at 30 Vac, 50/60 Hz.

**Emergency Heat Indication:**

Display indicates when Emergency Heat is activated (Em).

**Clock Accuracy (at 77°F [25°C]):** ±1 min./month (30 days).

**Minimum Stage Operation Time (fixed):**

Minimum On

Heat: 1 minutes.

Cool: 3 minutes.

Minimum Off (Cool and Heat Pump): 1 minute.

**Humidity Ratings:** 5% to 90% RH, noncondensing.

**Temperature:**

Ratings:

Operating Ambient: 30°F to 110°F (-1°C to 43°C).

Shipping: -30°F to +150°F (-34°C to +66°C).

Display Accuracy: ±1°F (±1°C).

Setpoint:

Range:

Heating: 40°F to 90°F (4°C to 32°C).

Cooling: 45°F to 99°F (7°C to 37°C).

Deadband: 2°F (1°C).

Default Settings: See Table 2.

**Outdoor Sensor Wiring:** Requires 18 gauge wire.

**Table 2. Default Setpoints.**

Control	Occupied	Not Occupied	Standby
Heating	70°F (21°C)	55°F (13°C)	67°F (19°C)
Cooling	75°F (24°C)	85°F (29°C)	78°F (26°C)

**Loss of Power:** The thermostat maintains programmed times and temperatures for the life of the product. Clock and day information is retained for a minimum of 48 hours.

NOTE: To achieve the 48-hour power-loss clock retention, the T7350 must be powered for at least 5 minutes.

**Approvals:**

European Community Mark (CE) Listed.

UL 873 Recognized, NEC Class 2.

FCC Part 15 subpart J Class A.

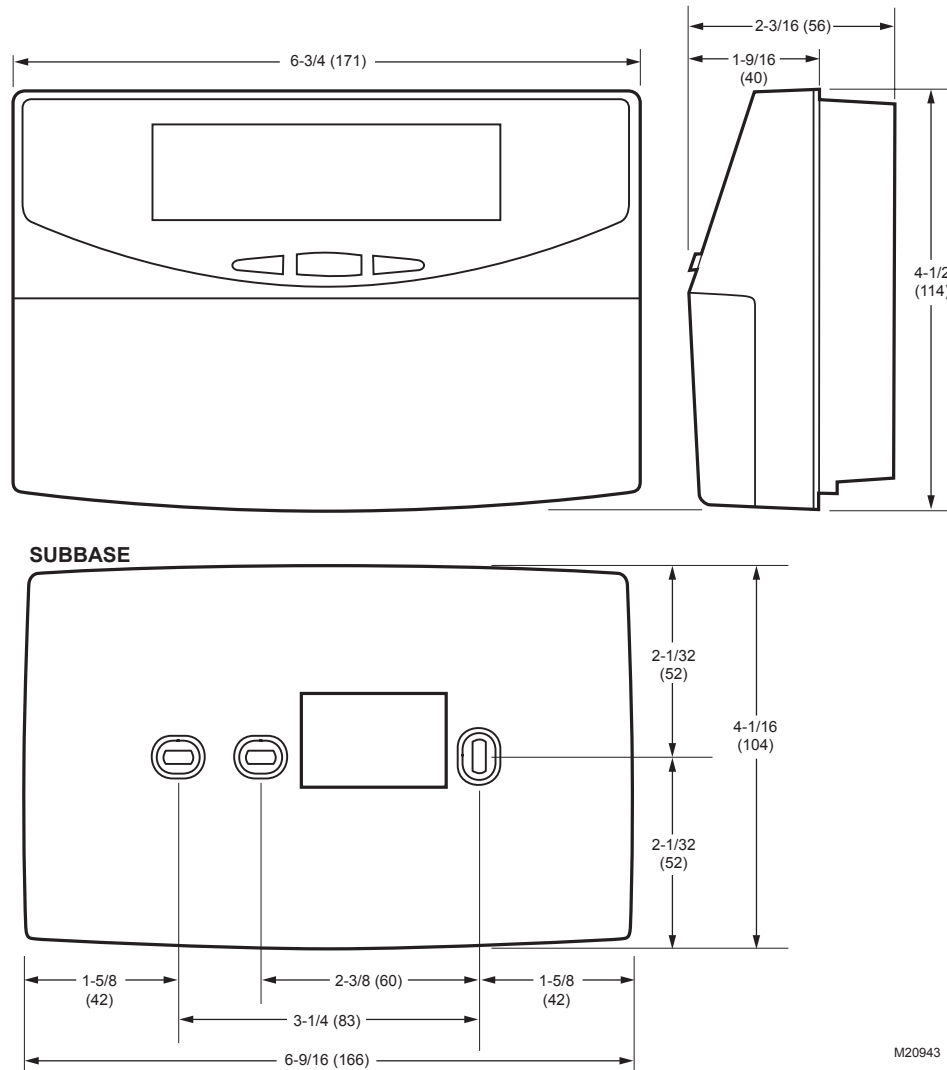
cUL.

**Accessories:**

Discharge Air Sensors: C7031B1033, C7031C1031, C7031J1050 (Averaging), C7770A1006.  
 Outdoor Air Sensors: C7089A1002, C7170A1002.  
 Temperature Sensors (Remote): T7770A1006, T7770B1046, T7770C1044, T7770D1000.  
 Economizer Logic Modules: W6210, W6215, W7210, W7212, W7215, W7459.  
 Humidity Sensors: H7621A,B,C; H7631A,B,C.  
 PDA Units: ZIRE™ handheld; TUNGSTEN™ T handheld; Palm™ M125 handheld.

**Others:**

209651A Vertical Mounting Hardware Wallplate Adapter (Trident white).  
 50000083-001 Thermostat Interface Module (TIM).  
 50000314-001 PDA Configuration Software.  
 50000451-001 Troubleshooting Cable.  
 TG511, TG512 Universal Versaguard™ Thermostat guards.



M20943

**Fig. 1. Dimensions of thermostat and subbase in in. (mm).**

*ZIRE and TUNGSTEN are trademarks of palmOne, Inc.*

*Palm is a trademark of PalmSource, Inc.*

---

**Honeywell**

**Automation and Control Solutions**

Honeywell International Inc.  
1985 Douglas Drive North  
Golden Valley, MN 55422

Honeywell Limited-Honeywell Limitée  
35 Dynamic Drive  
Scarborough, Ontario  
M1V 4Z9

**ACS Control Products**

Honeywell AG  
Böblinger Straße 17  
D-71101 Schönaich  
Phone (49-7031) 637-01  
Fax (49-7031) 637-493

