

T7300D Programmable Commercial Thermostat and Q7300A,G Subbases

SPECIFICATION DATA



APPLICATION

The T7300D Programmable Commercial Thermostat and Q7300A,G Subbases control 24 Vac commercial single zone multistage heating, ventilating and air conditioning (HVAC) equipment.

FEATURES

- Use on multistage conventional applications.
- 7-day programming.
- Two Occupied and two Unoccupied periods per day.
- Individual heat and cool setpoints available for Occupied and Unoccupied periods.
- Proportional plus Integral (P+I) control eliminates temperature fluctuations.
- Intelligent Recovery® 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.
- Automatic or manual changeover selectable.
- Universal Versaguard™ Thermostat guards available.
- Convenient overrides allow temporary setpoint changes.
- Remote sensor capability.
- Keypad lockout available.
- Auxiliary contacts can be used to interface with C7400/W7459 Economizer System for total integration of rooftop control.



SPECIFICATIONS

T7300D Thermostat:

T7300D Programmable Commercial Multistage Thermostat provides programming keys, Liquid Crystal Display (LCD) and system operation algorithms.

Q7300A,G Subbases:

Q7300A Thermostat Subbase provides 2 stage heating and 2 stage cooling control for conventional single zone systems.

Q7300G Thermostat Subbase provides 3 stage heating and 3 stage cooling control for conventional single zone systems.

Electrical Rating:

24 Vac, 50/60 Hz.
20 to 30 Vac, 50/60 Hz.

Batteries:

No batteries required.

Loss of Power:

The thermostat will maintain programmed times and temperatures for the life of the product. The clock and day information is retained for a minimum of two hours.

Light Emitting Diodes (LEDs):

Two user-defined LEDs.
Two additional LEDs available on some models.

System Current Draw:

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

Output Relay Draw:

See Table 1.

Table 1. Maximum Amps at 30 Vac.

Relay	Running (A)	Inrush (A)
Fan	1.6	3.5
Heat (all stages)	1.6	3.5
Cool (all stages)	1.6	7.5
Auxiliary (Economizer)	1.6	3.5

Temperature:

Ratings:

Operating Ambient: 40°F to 110°F (4°C to 43°C).

Shipping: -30°F to +150°F (-34°C to +65°C).

Display Accuracy:

±1°F (±0.5°C).

Setpoint:

Heating: 40°F to 90°F (4°C to 31°C).

Cooling: 45°F to 99°F (7°C to 37°C).

Deadband: 2°F (1°C).

Default Settings: see Table 2.

Table 2. Default Setpoints.

Control	Occupied	Unoccupied
Heating	70°F (21°C)	55°F (13°C)
Cooling	78°F (25.5°C)	90°F (32°C)

Minimum Stage Operation Time:

Minimum On (Heat and Cool): factory setting 2 minutes; adjustable 0-2 minutes.

Minimum Off (Compressor): factory setting 4 minutes; adjustable 0-5 minutes.

Minimum Off (Heat): factory setting 4 minutes; adjustable 0-4 minutes.

Remote Sensor Wiring Temperature Offset:

Temperature offset occurs with 500 ft (157m) to 1000 ft (305m) of 2-wire cable. See Table 3.

Table 3. Temperature Offset.

Temperature Range	18 AWG	20 AWG	22 AWG
50-90°F	-0.4°F	-0.7°F	-1.0°F
10-32°C	-0.3°C	-0.4°C	-0.6°C

Humidity Ratings:

5% to 90% RH, noncondensing.

Clock Accuracy:

±1 minute per month.

Finish:

Taupe color.

Dimensions:

See Fig. 1.

Mounting Means:

T7300 Thermostat mounts on a Q7300 Subbase. The subbase mounts horizontally on a wall or outlet box with two no. 6 x 32 screws (included).

Accessories:

C7400 Enthalpy Sensor (form 63-2140).

M7415 Damper Actuator (form 63-2100).

ML7984 Valve Actuator (form 95C-10753).

R8222 Switching Relay (form 60-2056).

T675A Temperature Control (form 60-2200).

T7022A1010 Remote Temperature Sensor (form 60-0247).

T7047C Remote Temperature Sensor (form 62-3050).

T7047G Remote Temperature Sensor (form 62-3050).

T7147A Remote Temperature Sensor and Override Module (form 62-3049).

W859F Packaged Economizer (form 63-2476).

W950A System Supervisor (form 60-2351).

W7459 Economizer Logic Module (form 63-2141).

C7046C Discharge Air Sensor (form 60-2350).

C7150B Discharge Air Sensor (form 63-2072).

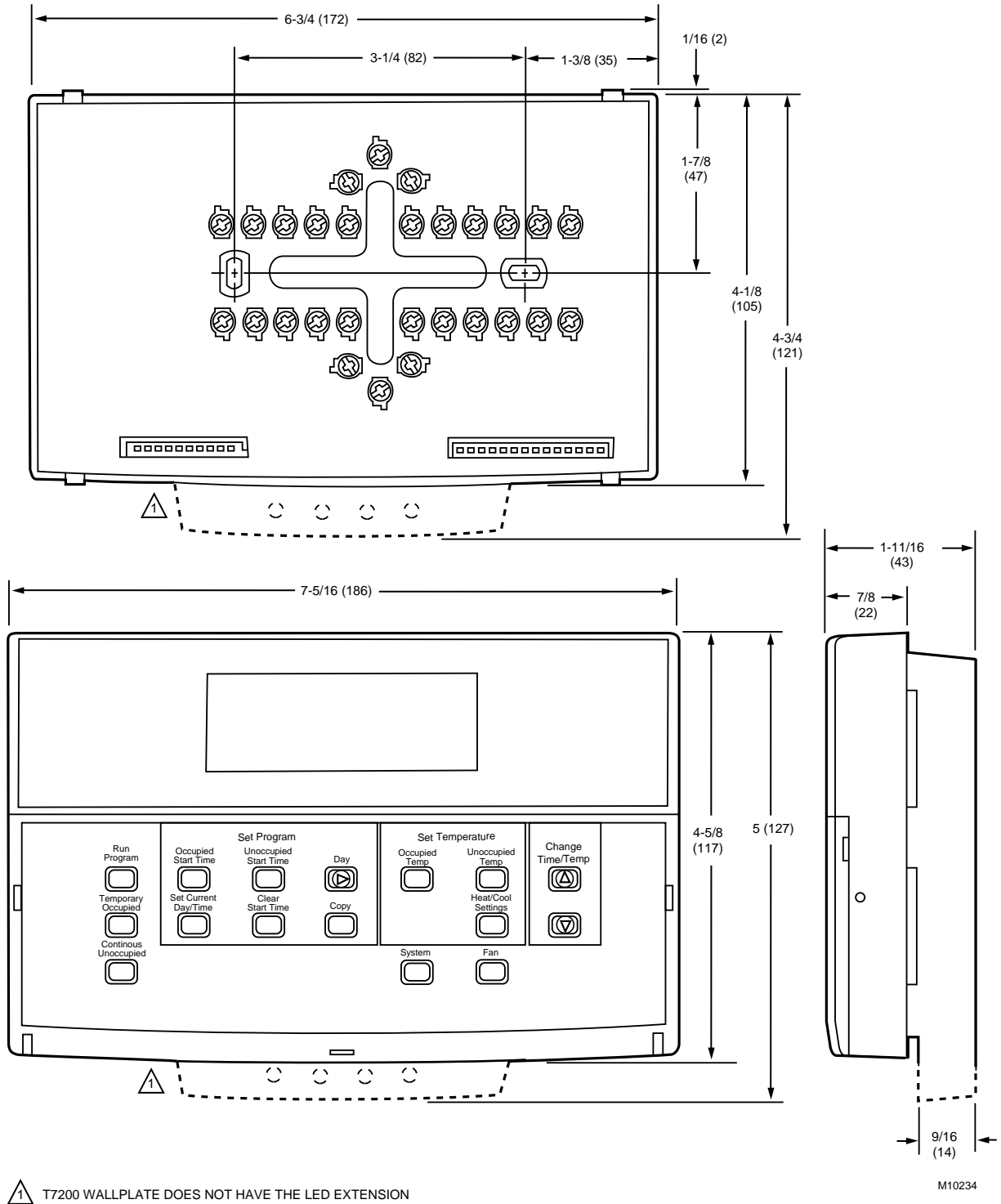


Fig. 1. Dimensions of T7300 and Q7300 in in. (mm).

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