Honeywell Home





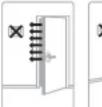
T140 Digital Thermostat

Installation and User Guide

Installation

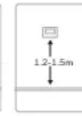
Must be installed by a competent person. To ensure your safety, make sure the mains power is switched OFF before accessing wiring.

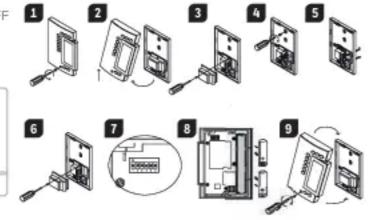
Guidelines 1.1











Configure the Thermostat 1.4

The switches are located on the back of the face plate. Default settings are highlighted

Switch	Description	UP	DOWN
400	Cycles (proportional)	15 min (see 1.4.1)	
1 & 2	Span (conventional)	15 min (F) (see 1.4.2)
3	Clock display	12H	24H
4	Temperature display ¹	٥F	°C
5	Temperature control mode	Proportional(see 1.4.1)	Conventional (see 1.4.2)
6	Pump protection ²	Deactivate	Activate

 If you change from °C to °F (or vice versa), you will need to reprogram your Comfort, Economy and Vacation settings. For hot water installations, it is recommended to enable this option to activate the pump for one minute every 24 hours to prevent pump seizure.

Proportional Adaptive Mode (switch #5) 1.4.1

This mode analyzes previous cycles to define the next duty cycle. This control mode guarantees optimal temperature control based on the system's capacity. To extend the life of the system, a minimum On/Off time of 10% of the cycle has been implemented.

- Radiant or convection electrical heating system
- Circulator controlin a hot water system
- Electrical hot-airfurnace
- · Conventional gas or fuel hot-air furnace

Heating Cycle Selection (switches #1 and #2)

Select the cycle using switches #1 and #2. Short cycles help eliminate temperature variations, thus increasing user comfort.

1.5 Install the Batteries

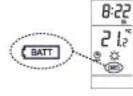
When you first install the batteries, the unit runs a sequence of tests and a complete reset to zero. The screen should display 0.00~MO and the ambient temperature. The current setpoint is 20°C .



0:00

1.5.1 Replacing the batteries

The thermostat will display an icon indicating that the batteries must be replaced. This icon will be displayed for 60 days; after this delay, the thermostat will shut down the heating unit. The time and programming are saved for 15 seconds when replacing the batteries.



Basic Configuration

Set the Time and Day

 Set the time, using the Hour and Minute buttons. Set the day, using the Day button.

2.2 Configure the Setpoints

2.2.1 Comfort and Economy

Vacation

2.2.2

These setpoints are associated to the schedule's programs and are pre-programmed as follows:

ಿ 20°C (68°F) Comfort Programs 1 and 3 18°C (64°F) Economy Programs 2 and 4

This pre-programmed setpoint is used when the Vacation mode is activated. Vacation

Program Your Schedule

The thermostat allows four setting changes for each day of the week. There are no pre-set programs. Your heating system switches between the Comfort setpoint and the Economy setpoint according to the times you would have set.

Programs	Associated Setpoint	Time
PROG1	(Camfart)	Wake-up
PROG 2	C (Economy)	Leave
PROG3	O (Comfort)	Return
PROG4	C (Economy)	Sleep

Set or Modify the Programs 4.1

- Press Program. The screen displays MO and PROG 1.
- Press Day to select the day (hold for 3 seconds to select all days of the week).
- Press Hour and Minute to set the start time. To clear an entry, press Clear, the time zone displays ---- when 3 the program is inactive.
- Press Program to select the program number (2, 3 or 4).
- Repeat steps 3 and 4 for remaining programs.
- Press Manual/Auto to exit.

To erase program for desired day:

- Press Program until desired program is selected. Press Day to select desired day.
- Press Clear to erase the time (-:-).
- Press Manual/Auto to exit.

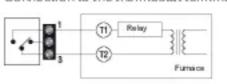
- Loosen the captive screw holding the faceplate to the mounting plate.
- Pull the lower part of the faceplate to remove it from the mounting plate.
- Loosen the screw (captive) holding the wire cover and remove the wire cover. Pull wires through the hole in the mounting plate and secure the mounting plate to the wall
- (or onto an electrical box for line voltage wiring) using the enclosed wall anchors and screws. Wire the thermostat to the heating system and, if necessary, connect the remote input.
- Once wiring is complete, re-install the wire cover.
- Use the switches located at the back of the face plate to configure your thermostat according to your application.
- Mount the faceplate on the mounting plate and tighten the screw.

1.2 Thermostat Wiring For a 2-wire connection: no polarity.

Direct wiring to the circulator

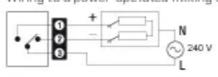


Connection to the thermostat terminals of a furnace



For a 3-wire connection: observe the polarity

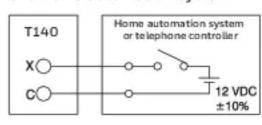
Wiring to a power-operated mixing control valve



1.3 Remote Input Wiring

The thermostat is equipped with a remote input which allows connection of a telephone controller or a home automation system. When a signal is received through this input, the thermostat will automatically switch from normal operating mode to Vacation mode. For details on operating the telephone controller, refer to the instruction manual.

Connection to telephone controller or a home automation system



Cycles	Cycles EUROPE	
5 minutes	5 minutes Not recommended for furnaces	
10 minutes Gas or electric wall furnace		ļ
15 minutes	15 minutes Fuel or gas floor furnace, forced air heating	
20 minutes	Commercial unit	وَ وَ

Conventional mode with anticipation (switch #5)

This mode is compatible with all heating systems.

Programmable Span Selection (switches #1 and #2)

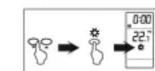
Select the span using switches #1 and #2. The default temperature span is 0.5°C. For example, if the temperature setpoint is 20°C, the heating system will turn on at 19.5°C and turn off at 20.5°C.

Span	Hot Water Heating	Forced Air Heating	Position
0,3°C	Nat recommended for furnaces	Nat recommended for central units	Ť
0,4°C	Gas or electric wall furnace	Radiant or convection electric heating	ŗ
0,5°C	Fuel or gas floor furnace, forced air heating	Central heating	٦
0,6°C	Commercial unit		Ĭ

To Modify a Setpoint Set the temperature using AV.

 Press and hold one of the setpoint buttons (or C or D) until the icon is displayed on the screen (approx. 3 seconds).





8:30

22.5

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8:20

55.5



Automatic (9) 3.1

This mode executes the schedule. To activate:

Press Manual/Auto until
O is displayed. The program setpoint icon is displayed.

3.1.1 Temporary Bypass

When in Automatic mode, you can temporarily bypass the current program setpoint until the beginning of the next program. To bypass:

Set the desired temperature ▲▼ OR quickly press ♥ or ℂ to use a pre-defined setpoint.

Manual D This mode allows you to maintain a constant temperature. Press Manual/Auto until is displayed.

Set temperature ▲▼ OR quickly press ♥ or € to use a pre-defined setpoint.

22.5

3.3 Vacation Maintains a specific temperature when away for a prolonged absence (e.g. vacation).

From the thermostat, quickly press to activate.



Technical Specifications

Power supply: 2 AA or LR6 alkaline batteries 1.5 V Max. resistive load: 5 A @ 240 VAC / 5 A @ 30 VDC

Max. inductive load: 2 A @ 240 VAC / 2 A @ 30 VDC (P.F. = 0.4) Remote input: 12 VDC, ± 10%, 2.5 mA

Certifications: CE, c UL us Control device: Electronic Automatic action: Type 1 B

Number of programs: 4 programs / day, total of 28 programs Storage temperature: -20°C to 50°C (-4°F to 122°F) Operating temperature: O°C to 50°C (32°F to 122°F), 95% R.H. Temperature setting range: 5°C to 30°C (40°F to 85°F)

Temperature display resolution: 0.1 degree Temperature reading accuracy: ± 0.5°C (± 0.9°F)

Software: Class A Protection class: || Protection degree: IP40

The terminals are designed to handle a cross-section of wire measuring up to 2.5 mm2 (14 AWG).

Bk-electronic GmbH Hardhofweg 40 74821 Mosbach Germany

For assistance with this product please visit

livewell.honeywellhome.com



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