

# T6861 Series Digital Thermostat 2-pipe/4-pipe fan coil control

Data sheet



#### **Application**

T6861 digital thermostats are designed for application of 3-speed fan and valves in fan coil system. Including:

2-pipe cool only/heat only/manual changeover and 4-pipe manual or automatic changeover

Ventilation mode

Manual or automatic 3-speed fan control

Water valve control

Fan speed can be selected to automatic or manual 3-speed control mode.

In ventilation mode, fan only support manual speed control.

#### **Features**

- Super modern appearance design, suitable for office, hotel and residential building
- Horizontal and vertical model available for variant application
- Slim design, independent installation on 86 size box directly
- Stylish and elegant blue/green backlight
- 2-pipe/4-pipe integrated into one unit with easy configuration
- · Big LCD display with English and icons
- · Easy to install and set-up
- Time on/off function
- Selectable room temperature or setpoint display
- Manual or automatic fan speed selection
- Remote temperature sensor
- Energy saving mode activation by button press or dry contact (key card)
- Cycle per Hour (CPH) function
- · Adjustment of display room temperature
- Temperature unit either °C or °F
- · User setting can be kept when power off
- Freezing protection function available
- Lock or unlock keys or part of keys in Installer Setup
- · Heat and cool setpoint limitation for energy saving

#### **Model summary**

Model	Horizontal/ Vertical	Backlight Color	Time on/off	2-pipe/ 4-pipe	Power supply (V)	Energy Saving	Ventilation	Manual/ Automatic Fan	Remote Sensor
T6861H2WB	Horizontal	Blue	Y	2/4	230	Y	Y	Y	Y
T6861V2WB	Vertical	Blue	Y	2/4	230	Y	Y	Y	Υ
T6861H2WG	Horizontal	Green	Y	2/4	230	Y	Y	Y	Y
T6861V2WG	Vertical	Green	Y	2/4	230	Y	Y	Y	Y

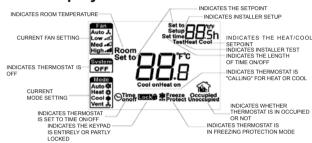
Note: Horizontal models are taken as samples for display, operation and installation pictures shown in below parts.

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#### Mechanical design Thermostat appearnce



#### LCD display



#### **Function**

#### Valve control-support 2/4 pipes valve

Voltage Rating:230Vac(-10%,+10%) Current Rating:230Vac 2(1)A

Thermostat acquires the room temperature via its integrated sensor or external temperature sensor and maintains the setpoint by delivering on/off valve control commands output.



#### Fan Speed Control

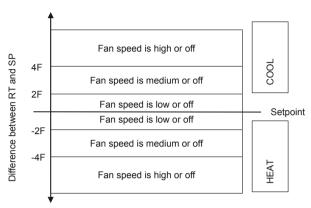
Control 3 speed Fan(Low,, Mid, High) Voltage Rating:230Vac Current Rating:230Vac 4(2)A



PRESS THE FAN BUTTON TO SELECT LOW,

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Fan can be selected as manual or automatic 3-speed operation. In Manual mode, the fan is switched to the selected speed via control output Gh, Gm, Gl. While in automatic mode, fan speed depends on the difference between room temperature and setpoint. When room temperature reaches setpoint, valve will be closed and meanwhile, fan will be closed either.

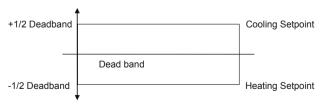


Fan speed ramping control algorithm

#### Four-pipe application

System will have a fixed deadband set in ISU between heating and cooling setpoints for Automatic Change Over (ACO) configured thermostats. While the heating and cooling set points determine the dead band.

If the difference between heating and cooling set points is less than the dead band set in ISU, then the dead band set in ISU is enforced. When adjusting the cooling set point, conflicts will be resolved by moving the heating set point out of the way of the cooling set point (heating set point=cooling set point—dead band set in ISU). When adjusting the heating setpoint, conflicts will be resolved by moving the cooling set point out of the way of the heating set point (cooling set point=heating set point +dead band set in ISU). Heating and Cooling range stops will determine the maximum heating setpoint setting and minimum cooling setpoint setting.



4 pipes auto change over setpoint algorithm

The last system control mode used will determine the mode in ACO when in the deadband.

#### Temperature display

The displayed temperature can be set to acquired room temperature or setpoint. The setting can be made during Installer Set-Up process.

Room temperature and scetornt can be displayed simultaneously.

#### Cycle per hour (CPH)

In order to get a more accurate temperature control, CPH function may enable the thermostat to open the valve for several times per hour even the temperature is close to setpoint (difference less than ½ P-band). The default value is 4 for heating and 3 for cooling and can be changed in Installer Set-Up process.

#### Time on/off

If the thermostat is off, hold power button for 3 seconds, system will be time on mode. If the thermostat is on, hold power button for 3 seconds, system will be time off mode.

The setting range is from 0 to 12 hours. The step is 0.5 hour with the default time is 0.



#### **Backlight**

Any key press will activate the backlight. Backlights will timeout 8 seconds after last key press. When in Installer Set-up and Installer test mode, the backlight will timeout 60 seconds after last key press.

#### Remote temperature sensor input

Sensor type: NTC20K

T6861 provides control either depending on the acquired room temperature or depends on the return air temperature.

#### Keypad lock

Keypad lock can be set in ISU with default status is all keys available. You may change into mode button locked out, Fan and mode buttons locked out and All buttons locked out by changing the ISU.

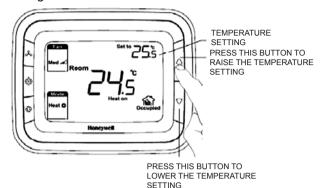
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#### **Operating modes**

The following operating modes are available:

#### Comfort mode

In comfort mode, the setpoint can be changed by pressing up and down button. Different applications include cool only, heat only and manual heat/cool changeover.



#### Ventilation mode

Press mode button to enter ventilation mode. In ventilation mode, no output for valve while the fan will operate according to selected fan speed.

#### **Energy saving mode**

A potential-free dry contact (such as hotel key card) or button press (pressing mode button for continuous 3 seconds) can activate the energy saving mode with icon appearing on screen. The dry contact can be selected as normal open or normal close type in ISU.

If activated by dry contact, all buttons will be locked except the multi-key for ISU. If energy saving is activated by button press, then any following button press will stop energy saving mode.

For heating mode, if the energy saving function is enabled, the setpoint will change to remote setback heating setpoint. The range of remote setback heating setpoint is from  $10^{\circ}\text{C}$  to  $21^{\circ}\text{C}$  and default value is  $18^{\circ}\text{C}$ . The value may change in ISU with step of  $0.5^{\circ}\text{C}$ .

For cooling mode, if the energy saving function is enabled, the setpoint will change to remote setback cooling setpoint. The range of remote setback cooling setpoint is from 22°C to 32°C and default value is 26°C. The value may change in ISU with step of 0.5°C.

#### Freezing protection mode

Freezing protection can be selected as disabled (default) or enabled. In freezing protection mode (no such mode in cool only application), when thermostat is in OFF mode while the acquired temperature is below 6°C, the thermostat will start heat mode until the temperature rises to 8°C or the thermostat is turned on.



#### On/off mode

Pressing power button can switch between on and off mode.



INDICATES THERMOSTAT HAS BEEN SET TIME OFF

#### Technical specification

Power supply 230VAC Frequency 50/60Hz

Control algorithm PI, On/off output Accuracy +/-1°C at 21° Auto Cycle times 100,000 times Manual Cycle times 10,000 times

Setpoint range 10~32 °C Monitor range 0~37°C

Installation Installed on 86×86mm junction

box or US2×4 inch.

Protection Class IP20

Environmental Operation temperature -18~49° Conditions Shipping temperature -35~65°C C

Relative humidity 5~90%

Action Type Action type 1

Pollution Degree 2

Rated impulse Votage 2500V

Protection against electric shock class II

Software class Class A

Wire Diameter(Recommendation) 1-1.5mm Applied altitude up to 2000m above sea level Maximum Temperature for Relay Wiring 155°C

Working current for the whole prod 4(3)A

4A:When the load of the thermostat is resistance 3A:When the load of the thermostat is Inductance

For Fan load 4(2)A:4A:When the load is resistance; 2A:When the load is Inductance

For Valve load 2(1)A:2A:When the load is resistance 1A:When the load is Inductance

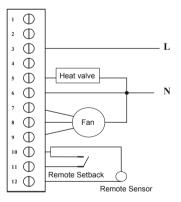
The valve need have overtravel-limit organ turn off the load

#### **Terminal Designations**

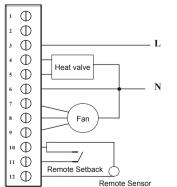
Item	Terminal	Description	
1	Сс	Cooling close, only for 4 pipes	
2	Υ	Cooling open,only for 4 pipes	
3	L	AC Power	
4	Ch/Cc	Heating close/Cooling close	
5	W/Y	Heating open/Cooling open	
6	N	AC Ground	
7	Gh	High speed fan relay	
8	Gm	Medium speed fan relay	
9	Gl	Low speed fan relay	
10	Sc	Ground for remote sensor and remote setback	
11	RSB	Remote set back	
12	Rs	Remote sensor	

#### Wiring diagrams

Application 1: 2 pipes heat only wiring diagram

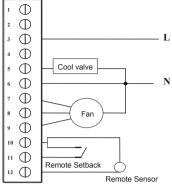


Typical wiring for ON/OFF control in 2 pipe heating only (VC4013)

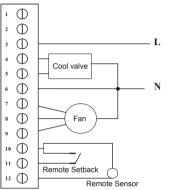


Typical wiring for ON/OFF control in 2 pipe heating only (VC6013)

#### Application 2: 2 pipes Cool only wiring diagram

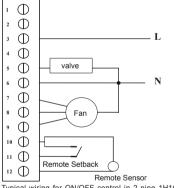


Typical wiring for ON/OFF control in 2 pipe cooling only (VC4013)

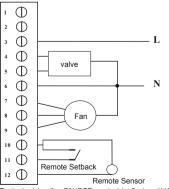


Typical wiring for O N/OFF control in 2 pipe cooling only (VC6013)

## Application 3: 2 pipes 1 stage Heat or 1 stage Cool MCO wiring diagram



Typical wiring for ON/OFF control in 2 pipe 1H1C (VC4013)



Typical wiring for ON/OFF control in 2 pipe 1H1C

## Application 4: 4 pipes 1stage Heat and 1 stage Cool MCO/ACO wiring diagram

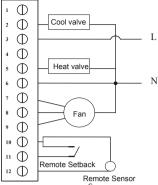
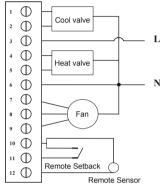


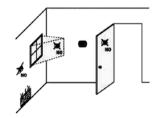
Fig.2.7 Typical wiring for ON/OFF <sup>C</sup>ontrol in 4 pipe 1H/1C Auto/ Manual Change over (VC4013)



Typical wiring for 3-wire control in 4 pipe 1H/1C Auto/ Manual Change over (VC6013)

#### **Installation & Commissioning**

Install the thermostat about 5 feet (1.5m) above the floor in an area with good air circulation at average temperature.

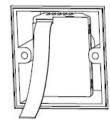


Do not install in locations where the thermostat can be affected by:

- Drafts or dead spots behind doors and in corners
- · Hot or cold air from ducts
- Sunlight or radiant heat from appliances
- Concealed pipes or chimneys
- Unheated/uncooled areas such as an outside wall behind the thermostat
- 1 Pull wires through wire hole.Loosen screw terminals, insert wires into terminal block, then retigngen screws.



2 Push the Power box into the junction box.



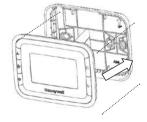
3 Place Back cover over junction box, insert and tighten mounting screws.



4 Insert the cable into connector on circuit board of thermostat.

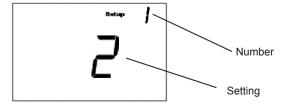


5 Align 4 tabs on the Back cover with corresponding slots on the back of the thermostat, and then push it until the thermostat snaps in place.



#### Installer Set-Up (ISU) setting

Press A and simultaneously for 3 seconds to enter ISU as below:



Press  $\triangle$  or  $\nabla$  to change settings Press to advance to next function

Press  $\wedge$  and hold  $\wedge$  and buttons 3 seconds to

exit and save settings

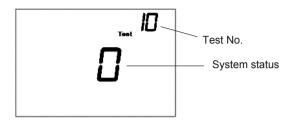
#### **Setup Function Settings & Options**

4 four pipes manual   5 four pipes auto	System type    1
1	1 Cool only   2 two pipes 1H1C manual (Default)   4 four pipes manual   5 four pipes auto   0 Onboard Sensor (Default)   1 Remote (NTC20K)   1 Remote (NTC20K)   0 °F
11         System type         2 two pipes 1H1C manual (Default) 4 four pipes manual 5 forur pipes auto 5 four pipes auto 9 Temperature scale         0 Onboard Sensor (Default) 1 Remote (NTC20K) 9	System type   2 two pipes 1H1C manual (Default)
4 four pipes manual   5 four pipes auto	## A four pipes manual   5 four pipes auto
Sequence Dead band for four pipes auto	S four pipes auto
Semole sensor   Onboard Sensor (Default)	Remote sensor   O Onboard Sensor (Default)     1 Remote (NTC20K)     2 Remote New (NTC20K)     1 Remote (NTC20K)     2 Remote New (NTC20K)     3 Remote (NTC20K)     4 Remote (NTC20K)     4 Remote (NTC20K)     5 Remote New (NTC20K)     1 Remote (NTC20K)     1 Rem
1	Remote sensor   1 Remote (NTC20K)     Temperature scale   1 °C(Default)     O Cycle only   1 Constant only (3 speed: Low->Med->High-> Low)     2 User can choose Cycle or Constant (3 speed: Low->Med->High->Auto-> Low) (Default)     1 °C (2 °F)     1.5 °C (3 °F)(Default)     2 °C (4 °F)     3.5 °C (6 °F)     4.5 °C (8 °F)     5 °C (9 °F)     1     2     3     4 (default)     5     6     7     8     9     10     11     12     4     CPH value For Cool   4     CPH value For Cool
Scale     1 °C(Default)	Scale   1 °C(Default)
Scale   1 °C(Default)	Scale
1	1 Constant only (3 speed: Low->Med->High-> Low) 2 User can choose Cycle or Constant (3 speed: Low->Med->High->Auto-> Low) (Default)  1 °C (2 °F) 1.5 °C (3 °F)(Default) 2 °C (4 °F) 3 °C (6 °F) 4 °C (7 °F) 4.5 °C (8 °F) 5 °C (9 °F)  1 2 3 4 (default) 5 6 7 8 9 10 11 12 2 CPH value For Heat  CPH value For Cool  4 CPH value For Cool
10   Fan control type	Sequence Dead band for four pipes   (3 speed: Low>Med->High-> Low)
12   Sequence Dead band for four pipes   1 °C (2 °F)   1.5 °C (3 °F)(Default)   2 °C (4 °F)   3.5 °C (6 °F)   4.5 °C (8 °F)   4.5 °C (8 °F)   5 °C (8 °F)   4.5 °C (8 °F)   6 °C (8 °F	2 User can choose Cycle or Constant (3 speed: Low->Med->High->Auto-> Low) (Default)  1 °C (2 °F)  1.5 °C (3 °F)(Default)  2 °C (4 °F)  3.5 °C (6 °F)  4 °C (7 °F)  4.5 °C (8 °F)  5 °C (9 °F)  1 2 3 4 (default)  5 6 7 8 9 10 11 12  CPH value For Heat  4 CPH value For Cool  4 °C PH value For Cool  1 2 3 (default)  2 The value For Cool  4 °C PH value For Cool
13   Sequence Deadband for four pipes   1 °C (2 °F)   1.5 °C (3 °F) (Default)   2 °C (4 °F)   3 °C (5 °F)   3 °C (6 °F)   4 °C (7 °F)   4.5 °C (8 °F)   5 °C (9 °F)   4 °C (7 °F)   4.5 °C (8 °F)   5 °C (9 °F)   4 °C (7 °F)   4 °C (9 °F)   6 °C (9 °F)   7 °C (9 °F)   9 °C (9 °F)	CPH value For Heat   CPH value For Cool
Sequence Dead band for four pipes   3.5 °C (3 °F) (2 °F)	1.5 °C (3 °F)(Default) 2 °C (4 °F) 3 °C (6 °F) 3 °C (6 °F) 4 °C (7 °F) 4.5 °C (8 °F) 5 °C (9 °F)  1 2 3 4 (default) 5 6 7 8 9 10 11 12  CPH value For Heat  CPH value For Cool  CPH value For Cool  CPH value For Cool  CPH value For Cool
Sequence Dead band for four pipes   2°C (4°F)   3°C (5°F)	2 °C (4 °F) 3 °C (5 °F) 3 °C (6 °F) 4 °C (7 °F) 4 °C (8 °F) 5 °C (8 °F) 5 °C (9 °F)  1 2 3 4 (default) 5 6 7 8 9 10 11 12  CPH value For Heat  1 2 2 3 4 (CPH value For Cool 1 1 2 3 4 4 4 4 CPH value For Cool 4 1 2 3 4 4 4 4 CPH value For Cool 4 1 2 3 4 4 4 4 CPH value For Cool 4 4 4 4 CPH value For Cool 4 4 4 CPH value For Cool 4 4 CPH value For Cool 4 CPH value For Cool
Sequence Dead band for four pipes   3 °C (6 °F)     4 °C (7 °F)     4 .5 °C (8 °F)     5 °C (9 °F)     1     2     3     4 (default)     5     6     7     8     9     10     11     12     1     2     3 (default)     5     6     7     8     9     10     11     12     1     2     3 (default)     5     6     7     8     9     10     11     12     1     2     3 (default)     5     6     6     7     8     9     10     11     12     1     2     3 (default)     5     6     6     7     7     8     9     10     11     12     3 (default)     5     6     6     7     7     6     7     8     9     10     11     12     2     3 (default)     2     3 (default)     4     5     6     -1 °C (-3 °F)     1 °C	Sequence Dead band for four pipes  3 °C (5 °F)  3.5 °C (6 °F)  4 °C (7 °F)  4.5 °C (8 °F)  5 °C (9 °F)  1 2 3 4 (default) 5 6 7 8 9 10 11 12  CPH value For Heat  1 2 2 3 4 (default) 5 6 7 8 9 10 11 12 12 12 3 (default) 4  CPH value For Cool  4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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Pipes   3.5 °C (6 °F)   4 °C (7 °F)   4.5 °C (8 °F)   5 °C (9 °F)   1   2   3   3   4 (default)   5   6   6   7   8   9   10   11   12   12   11   12   12   14   14	3.5 °C (6 °F)  4 °C (7 °F)  4.5 °C (8 °F)  5 °C (9 °F)  1 2 3 4 (default) 5 5 CPH value For Heat  7 8 9 10 11 12  CPH value For Cool  1 2 3 4 (default) 5 4 CPH value For Heat  1 2 3 4 CPH value For Cool  1 2 3 4 CPH value For Cool
13	4.5 °C (8 °F) 5 °C (9 °F)  1 2 3 4 (default) 5 6 7 8 9 10 11 12  CPH value For Heat  1 2 3 4 (default) 5 6 7 8 9 10 11 12 12 12 3 CPH value For Cool 4
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10	10 11 12 1 2 CPH value For Cool 3(default) 4
11   12   1   2   3   3   3   3   3   3   3   3   3	11 12 1 2 1 2 CPH value For Cool 3(default) 4
12	12 1 2 CPH value For Cool 3(default) 4
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CPH value For Cool	4 CPH value For Cool 3(default) 4
14	Cool 4
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18	1 10
18 Display Temperature adjustment  19 Temperature Display mode  10 S °C(1 °F)  1 °C(2 °F)  1 °C(4 °F)  1 °C(50 °F)  2 °C(4°F)  1 °C(4 °F)  2 °C (4°allt)  2 °C (50-90 °F default 90 °F  2 °C(4°allt)  2 °C (4°allt)  2 °C (4°allt)  2 °C (50-90 °F default 90 °F  2 °C (4°allt)  2 °C (4°allt)  2 °C (50-90 °F default 90 °F  2 °C (4°allt)  2 °C (4°allt)  2 °C (50-90 °F default 90 °F  2 °C (4°allt)  2 °C (4°allt)  3 °C (50-90 °F default 90 °F  2 °C (4°allt)  2 °C (4°a	
18	-2 °C(-4 °F)
Display   Temperature adjustment   Display   Temperature adjustment   Display   Disp	-1.5 °C(-3 °F)
Temperature adjustment	-1 °C(-2 °F)
adjustment  0.5 °C(1 °F) 1 °C(2 °F) 1.5 °C(3 °F) 2 °C(4 °F)  1.5 °C(3 °F) 2 °C(4 °F)  1 display Room Temperature 1 display Setpoint 2 display both (default)  1 display Setpoint 2 display both (default)  1 0-32 °C default 32 °C (50-90 °F default 90 °F def	
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2°C(4°F)  19 Temperature Display mode  1 display Room Temperature 1 display Setpoint 2 display both (default)  10-32 °C default 32 °C (50-90 °F default 90 °	` ,
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1 display Setpoint 2 display both (default)  1 display Setpoint 2 display both (default)  1 display Setpoint 2 display both (default)  10-32 °C default 32 °C (50-90 °F default 90 °F  21 Cooling Range Stops  10-32 °C default 10 °C (50-90 °F default 50 °F  10-32 °C default 10 °C (50-90 °F default 50 °F  10-32 °C default 10 °C (50-90 °F default 50 °F  1 System button Locked out 2 Fan and System button Locked out 3 All buttons locked out 1 Hotel Card NO 2 Button (Default)  24 Remote setback heating setpoint 25 Remote setback cooling setpoint 26 Range 22-32 °C Default : 18 °C (Range 50-70 °F Default : 26 °C (Range 72-90 °F Default : 79 °F)  1 Disabled (default)	```
2 display both (default)  2 display both (default)  10-32 °C default 32 °C (50-90 °F default 90 °F d	1 display Setpoint
20 Heating Range Stops  10-32 °C default 32 °C (50-90 °F default 90 °F d	Display mode
22 Keypad Lockout    Colored Form   Colored Form	Heating Range 10-32 °C default 32 °C (50-90 °E default 90 °E)
1 System button Locked out 2 Fan and System button Locked out 3 All buttons locked out  2 Fan and System button Locked out 3 All buttons locked out  1 Hotel Card NO 1 Hotel Card NC 2 Button (Default)  24 Remote setback heating setpoint (Range 50-70°F Default : 64) 25 Remote setback cooling setpoint (Range 72-90 °F Default : 79 °F)  1 System button Locked out 2 Fan and System button Locked out 3 All buttons locked out 2 Fan and System button Locked out 3 All buttons locked out 2 Fan and System button Locked out 3 All buttons locked out 2 Fan and System button Locked out 3 All buttons locked out 4 Hotel Card NC 2 Button (Default) 2 Button (Default) 3 Fan and System button Locked out 4 Hotel Card NC 2 Button (Default) 4 Fan and System button Locked out 5 Fan and System button Locked out 6 Hotel Card NC 6 Fan Button (Default) 6 Fan and System button Locked out 6 Fan and System butto	Cooling Range 10-32 °C default 10 °C (50-90 °E default 50 °F)
22 Reypad Lockout  2 Fan and System button Locked out  3 All buttons locked out  0 Hotel card NO  1 Hotel Card NC  2 Button (Default)  24 Remote setback heating setpoint (Range 50-70°F Default : 64)  25 Remote setback cooling setpoint (Range 72-90 °F Default : 79 °F)  0 Disabled (default)	0 All keys available(default)
24 Remote setback heating setpoint Remote setback cooling setpoint O Disabled (default)  24 Remote setback Range 10-21°C Default : 18 °C (Range 50-70°F Default : 26 °C (Range 72-90 °F Default : 79 °F)	2 IKeynad Lockout E
23 Remote setback enable method  24 Remote setback heating setpoint  25 Remote setback cooling setpoint  26 Remote setback (Range 50-70°F Default : 26 °C (Range 72-90 °F Default : 79 °F)  27 O Disabled (default)	2 Fan and System button Locked out
23 Remote setback enable method  2 Button (Default)  24 Remote setback heating setpoint  25 Remote setback cooling setpoint  26 Remote setback (Range 50-70°F Default : 26 °C (Range 72-90 °F Default : 79 °F)  27 Remote setback (Range 72-90 °F Default : 79 °F)  28 Remote setback (Range 72-90 °F Default : 79 °F)	
enable method  Profession (Parallel Card NC)  Bernote setback heating setpoint  Remote setback (Range 10-21°C Default : 18 °C (Range 50-70°F Default : 64)  Remote setback Range 22-32°C Default : 26 °C (Range 72-90 °F Default : 79 °F)  O Disabled (default)	Remote sethack
Remote setback heating setpoint Range 10-21°C Default : 18 °C (Range 50-70°F Default : 64)  Remote setback cooling setpoint Range 22-32°C Default : 26 °C (Range 72-90 °F Default : 79 °F)  O Disabled (default)	enable method 1 Hotel Card NC
heating setpoint (Range 50-70°F Default : 64)  Remote setback cooling setpoint (Range 72-90 °F Default : 79 °F)  O Disabled (default)	
Remote setback cooling setpoint Range 22-32°C Default : 26 °C (Range 72-90 °F Default : 79 °F)	
cooling setpoint (Range 72-90 °F Default : 79 °F)	Remote sethack Range 22-32°C Default : 26 °C
0 Disabled (default)	
27 Freeze Protection	7 Freeze Protection O Disabled (default)
1 Enabled	1 Enabled

#### Installer system test

After completing the installer setup above, press the button again to begin a system test

Follow the procedure below to test the heating and cooling and fan system.



Press and hold  ${}_{\triangle}$  and  ${}_{\nabla}$  buttons 3 seconds to enter test mode.

Press △ or ▼ button to change system status.

Press  $\bigcirc$  button to advance to next test number.

Press  ${\underline{\mbox{$\vartriangle$}}}$  and  ${\overline{\mbox{$\blacktriangledown$}}}$  button hold to terminate system test at any time.

System Test System Status

10 Heat 0 Heat turn off.

1 Heat turns on.

30 Cool 0 Cool off.

1 Cool on.

40 Fan 0 Fan off

- 1 Low speed Fan on
- 2 Medium speed Fan on
- 3 High speed Fan on

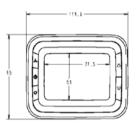
70 Thermostat information(for reference only)

- 71 Software revision number (major)
- 72 Software revision number (minor)
- 73 Configuration identification code (major)
- 74 Configuration identification code (minor)
- 75 Production configuration date code (week)
- 76 Production configuration date code (year)

#### **Troubleshooting Tips**

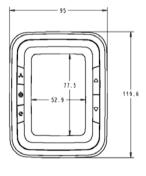
If	Then
Heating system does not turn on.	◆ Set the mode to Heat by pressing the Mode button.     ◆ Check that the heat temperature setting is set above the room temperature and "Heat On" shows solidly in the display.     ◆ Wait five minutes for the heating system to respond.
Cooling system does not turn on.	◆ Set the mode to Cool by pressing the Mode button.     ◆ Check that the cool temperature setting is set below the room temperature and "Cool On" shows solidly in the display.     ◆ Wait five minutes for the cooling system to respond.
The fan doesn't work.	◆ Check whether the Fan mode is set to Auto     ◆ Check whether the heating or cooling system works.
The Mode button doesn't work.	Check whether the keypad is locked or not.     Check whether the system is working in Energy saving mode.     Check whether the thermostat is off.
The Fan button doesn't work.	Check whether the keypad is locked or not.     Check whether the system is working in Energy saving mode.     Check whether the thermostat is off.
The Up or Down button doesn't work.	Check whether the keypad is locked or not.     Check whether the system is working in Energy saving mode.     Check whether the thermostat is off.

#### **Dimension**





#### Horizontal model





Vertical model

### Honeywell