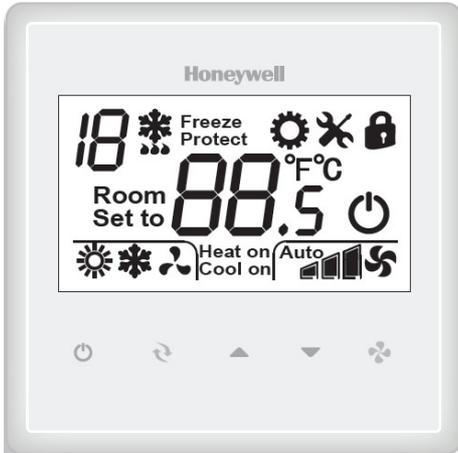


Large LCD Digital Thermostat 220 VAC 2-pipe/4-pipe fan coil control

Data Sheet



Application

This digital thermostat is designed for application of 3-speed fan and valves in fan coil system.

Including

- 2-pipe cool only/heat only/manual changeover
- 4-pipe manual or automatic changeover
- Ventilation mode
- Manual or automatic 3-speed fan control
- Water valve on/off control

Features

- Super modern appearance design, suitable for office, hotel and residential building
- Slim design, direct installation on 86 size box
- 2-pipe/4-pipe integrated into one unit with easy configuration
- Big LCD display with English and icons
- Easy to install and set-up
- Selectable room temperature or setpoint temperature display
- Manual or automatic fan speed selection
- Cycles 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 Set-up
- Heat and cool setpoint limitation for energy saving

Model Summary

Model	Backlight	2-pipe/4-pipe	Power supply (V)	Ventilation	Manual/Automatic Fan
T6820A2001	Y	2/4	220	Y	Y

Thermostat Appearance



1. Power On/Off

Press  to power on or off thermostat.

2. Fan Speed

Press  to select fan speed: Low , Medium , High , Auto.

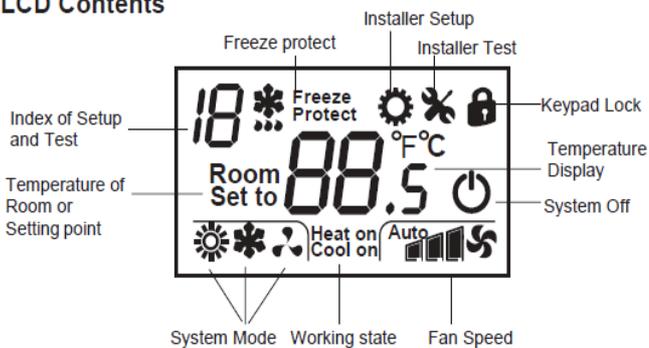
3. System mode

Press  to select the system mode: Heat , Cool , Ventilation .

4. Temperature setting

In heat or cool mode, press  or  to set the target room temperature.

LCD Contents



Terminal Designations

Number	Symbol	Description
1	Cc	Cooling Valve Close
2	Y	Cooling Valve Open
3	L	Line Voltage Power; 220VAC
4	Ch/Cc	Heating/Cooling Valve Close
5	W/Y	Heating/Cooling Valve Open
6	N	Line voltage Neutral
7	Gh	High speed fan relay
8	Gm	Medium speed fan relay
9	Gl	Low speed fan relay

Technical Specification

Power Supply: 220V (+15%,-10%)

Control Algorithm: PI, On/Off Output

Accuracy: $\pm 1^{\circ}\text{C}$ at 21°C

Load Rating: Fan 2A; Valve 1A

Setpoint Range: $10\text{-}32^{\circ}\text{C}$

Installation: $86\text{*}86\text{mm}$ box

Protection Class: IP20

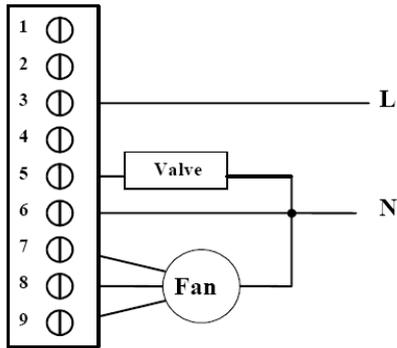
Working ambient temperature: -18°C to 49°C

Shipping temperature: -35°C to 65°C

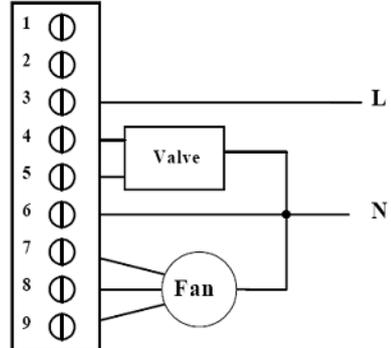
Relative Humidity: 5% RH to 90% RH, non-condensing

Wiring Diagrams

2-Pipe, Heat/Cool only; 2-Pipe Heat/Cool Manual Changeover

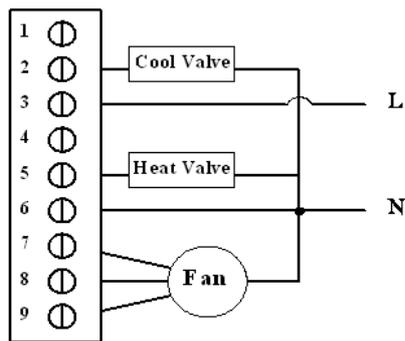


Honeywell VC4013 Series Wiring Diagram

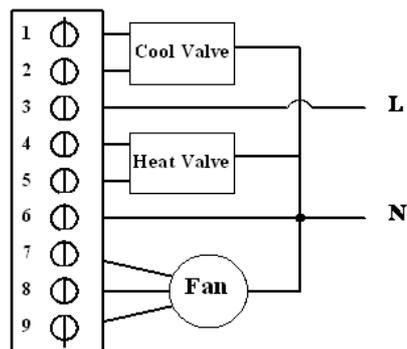


Honeywell VC6013 Series Wiring Diagram

4-Pipe, Heat/Cool Auto Changeover; 4-Pipe Heat/Cool Manual Changeover

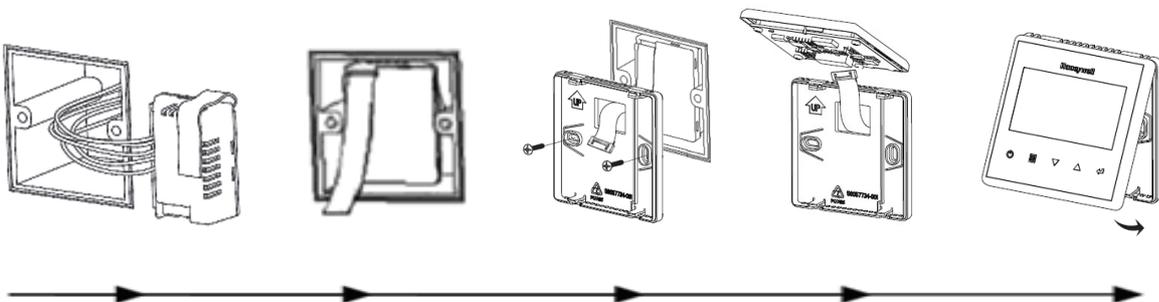


Honeywell VC4013 Series Wiring Diagram

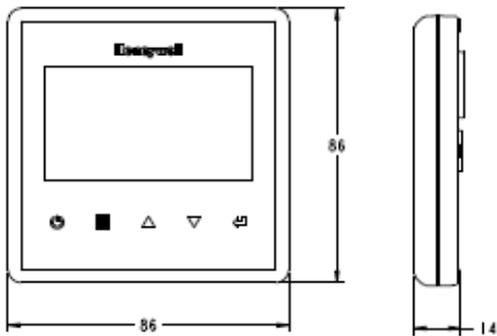


Honeywell VC6013 Series Wiring Diagram

Installation



Dimensions (mm)



Troubleshooting Tips

If ...	Then ...
Heating system does not turn on.	<ul style="list-style-type: none"> ◆ Set the mode to ☀ by pressing ⏻ ◆ Check if the set point is above the room temperature. ◆ Check if 'Heat on' shows solidly in LCD. ◆ 5 minutes later, checking the states of heating equipments.
Cooling system does not turn on.	<ul style="list-style-type: none"> ◆ Set the mode to ❄ by pressing ⏻ ◆ Check if the set point is below the room temperature ◆ Check if 'Cool on' shows solidly in LCD. ◆ 5 minutes later, checking the states of cooling equipments.
⏻ does not work	<ul style="list-style-type: none"> ◆ Check if keypad is locked. ◆ Check if thermostat is in ⏻ mode.
▲ or ▼ does not work	<ul style="list-style-type: none"> ◆ Check if keypad is locked. ◆ Check if system is in ventilation mode. ◆ Check if thermostat is in ⏻ mode.