# Honeywell

# **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 ℃ or ℉
- 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	Ventilation	Manual/Automatic Fan
			( <b>V</b> )		
T6820A2001	Υ	2/4	220	Υ	Υ

### **Thermostat Appearance**



#### 1. Power On/Off 🖰

Press () to power on or off thermostat.

### 2. Fan Speed 🦠

Press ্ট to select fan speed: Low ুর্নে Medium ্রনি জ, High ্রামিজ, Auto ্

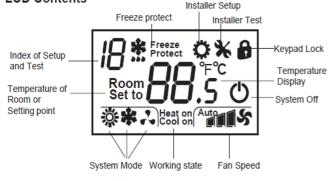
#### 3. System mode 😌

Press ightharpoonup to select the system mode:  $\operatorname{Heat} 
ightharpoonup$ ,  $\operatorname{Cool} 
ightharpoonup$ ,  $\operatorname{Ventilation} 
ightharpoonup$ .

#### 4. Temperature setting

In heat or cool mode, press extstyle extst

#### **LCD Contents**



# **Terminal Designations**

Number	Symbol	Description
1	Сс	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: ±1°C at 21°C

Load Rating: Fan 2A; Valve 1A

Setpoint Range: 10-32°C

Installation 86\*86mm box

Protection Class: IP20

Working ambient

temperature: -18°C to 49°C

Shipping temperature: -35°C to 65°C

Relative Humidity:

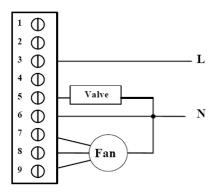
5% RH to 90% RH, non-

condensing

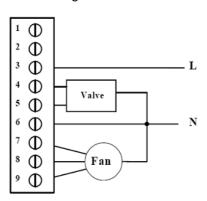
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## **Wiring Diagrams**

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

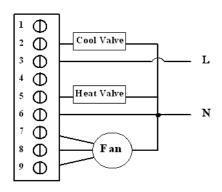




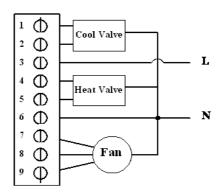


Honeywell VC6013 Series Wiring Diagram

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

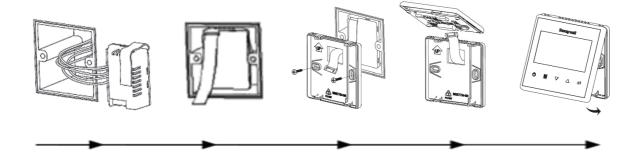


Honeywell VC4013 Series Wiring Diagram

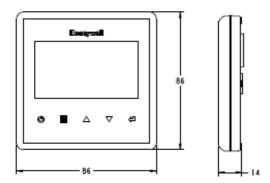


Honeywell VC6013 Series Wiring Diagram

### Installation



# Dimensions (mm)



# **Troubleshooting Tips**

If	Then		
Heating system does not turn on.	◆ Set the mode to		
Cooling system does not turn on.	<ul> <li>◆ Set the mode to ♣ by pressing ◆</li> <li>◆ Check if the set point is below the room temperature</li> <li>◆ Check if 'Cool on' shows solidly in LCD.</li> <li>◆ 5 minutes later, checking the states of cooling equipments.</li> </ul>		
does not work	◆ Check if keypad is locked.     ◆ Check if thermostat is in		
	<ul> <li>Check if keypad is locked.</li> <li>Check if system is in ventilation mode.</li> <li>Check if thermostat is in ① mode.</li> </ul>		

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