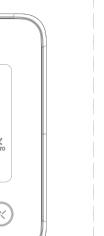
Honeywell Home

User Manual

TF428 RSBS Series Digital Thermostat

Thermostat Appearance





Power On/Off Time-off

Operating Your Thermostat

 Press () to switch on/off thermostat. When in off mode, OFF icon and indoor temperature will display. Press could set the

()

- automatical turn off time when the thermostat is working. Press () and hold for more than 3s. After timer icon flashes, press or to set turn off time, then press () button to
- Temperature \wedge
- In 🛇 or 🌋 or 🕸 mode, press or vo to set the target room temperature.

·· Operating Mode

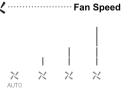








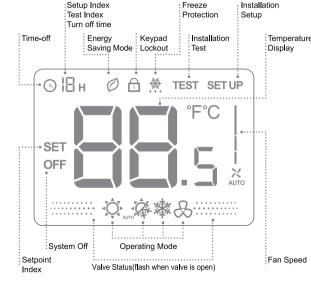




Speed Speed Speed

Auto Low Medium High

LCD Display



Trouble Shooting Tips

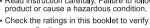
If	Then
∜ Doesn't work	Set the mode to the the temperature is set above the room temperature Check that the valve open icon is flashing Wait 5 minutes for the system to respond
	Set the mode to (cooling mode) by press Make sure the temperature is set below the room temperature Check that the valve open icon is flashing Wait 5 minutes for the system to respond
O Doesn't work	Make sure keypad is unlocked Check that the thermostat is on
∕V Doesn't work	Make sure keypad is unlocked Make sure the system isn't in
The system turns off automatically	*Make sure the memorized time off value isn't set to "0"
Time-off doesn't work	Make sure the button is unlocked Make sure the turn off time is not 0 Make sure the thermostat is not in ISU Make sure the thermostat is not off

If	Then	
- Doesn't work	Set the mode to the the temperature is set above the room temperature Check that the valve open icon is flashing Wait 5 minutes for the system to respond	
₩ Doesn't work	Set the mode to k (cooling mode) by press Make sure the temperature is set below the room temperature Check that the valve open icon is flashing Wait 5 minutes for the system to respond	
O Doesn't work	Doesn't work Make sure keypad is unlocked Check that the thermostat is on	
∕VDoesn't work	Make sure keypad is unlocked Make sure the system isn't in mode Check that the thermostat is on	
The system turns off automatically · Make sure the memorized time off value isn't set to "0"		
Time-off doesn't	-Make sure the button is unlocked -Make sure the turn off time is not 0	

Must be installed by a trained and experienced installer

Installation Guide

· Read instruction carefully. Failure to follow instruction will damage the



 Check the ratings in this booklet to verify that this product is suitable for your application.

Always test for proper operation after installation.

Caution: ELECTRICAL HAZARD can cause electrical shock or equipment damage. Disconnect power before installation, reparation and detachment.

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Installation Tips

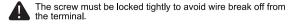
TF428 Series is designed for standard 75x75x50mm wall mounting box installation. Install the thermostat about 5 feet (1.5m) above the floor in an area with good air circulation at average temperature.



- Do not install in locations where the thermostat can be affected by:
- Dead spots behind doors and in corners
- Hot or cold air from ducts
- Sunlight or radiant heat from appliances
- Concealed pipes or chimneys



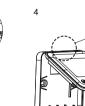




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Wiring and Installation







Terminal Designations

Terminal	Description
L	Live wire
vC/	Heating valve close/Cooling valve close, 2 pipes only
vO2	Cooling valve open, 4 pipes (VC/VN 4013) only
VO	Heating valve open/Cooling valve open, 2 pipes only Heating valve open, 4 pipes (VC/VN 4013) only
N	Neutral wire
FΗ	High speed fan
FΜ	Medium speed fan
FL	Low speed fan
RG	Ground for remote setback

Remote setback

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temperature range

R32347277-001 Subject to Change without notice.

Description
lose/Cooling valve close, 2 pipes only
open, 4 pipes (VC/VN 4013) only
ppen/Cooling valve open, 2 pipes only
e open, 4 pipes (VC/VN 4013) only
)
fan
eed fan
fan

* The temperature of mounting box and wall should be in the operating

Wiring Diagram 2

Two pipe application

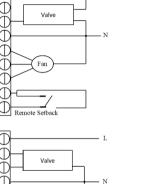
Wiring Diagram 1

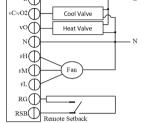
VC4013 VN4013 Wiring

VC6013 VN6013 Wiring

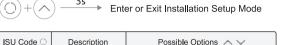
Four pipe application Wiring Diagram 1

VC4013 VN4013 Wiring





Installation Setup



ISU Code O	Description	Possible Options \land 🤝
		0 Heat only
		1 Cool only
1	System Type	2 Two pipes heating/cooling (Default)
		4 Four pipes manual
		5 Four pipes auto
3 Temperature Scale	0 °F	
	Temperature Scale	1 °C (Default)
4 Fan Control Type		Auto only Auto has fan ramping algorithm
	Fan Control Type	1 Manual only (3 speed: Low->Med->High-> Low)
		2 User can choose Auto or Manual (Default) (3 speed: Low->Med->High-> Auto-> Low)

ISU Code O	Description	Possible Options \land 🤝
5		1°C (2°F)
	Switching differential for 4 pipe auto changeover with single setpoint	1.5°C (3°F) (Default)
		2°C (4°F)
		3°C (5°F)
6	CPH value For Heat	1-12 4 (Default)
7	CPH value For Cool	1-6 3 (Default)
8	Display Temperature adjustment	-2 °C- 2 °C, 0.5 °C, Default 0 °C (-4 °F- 4 °F, 1 °F, Default 0 °F)
9	Temperature Display mode	0 Display room temperature (Default)
		1 Display set point
10	Heating Range Stops	10-32 °C Default 32 °C (50-90°F Default 90 °F)
11	Cooling Range Stops	10-32°C Default 10 °C (50-90°F Default 50 °F)
12	Keypad Lockout	0 All keys are available (Default)
		1 System button Locked out
		2 Fan and System button Locked out

ISU Code O	Description	Possible Options \land 🥆
		3 All button locked out except power button
		4 All buttons are locked
13	Remote setback	0 Hotel card NO
		1 Hotel Card NC
		2 Button (Default)
Remote setback Heating setpoint		Range 10-21°C Default : 18 °C
		(Range 50-70°F Default : 64 °F)
15	Remote setback	Range 22-32°C Default : 26 °C
	cooling setpoint	(Range 72-90 °F Default : 79 °F)
16	Freeze Protection	0 Disabled
		1 Enabled (Default)
17	Power Recovery Status	0 OFF
		1 Previous status (Default)
19	Fan mode in	0 Run as Auto fan speed when ISU_4=2 (Default)
	ES mode	1 Run as Low fan speed when ISU_4=2