Honeywell

TB6575/TB8575 SuitePRO™ Digital Fan Coil Thermostats

FEATURES

- **Simple, intuitive user interface.**
- **Pre-installed lead wires for fast installation (TB6575A and TB6575B models only)**
- **Backlight display permits easy viewing in any light.**
- **Four buttons allow manual control of system operation, fan speed, and temperature setpoint adjustment.**
- **Digital display of ambient temperature, setpoint, heating or cooling mode, fan status, and remote setback**
- **Proportional plus Integral (P+I) control algorithm for precision temperature regulation.**
- **Adjustable deadband for auto changeover using the Heat and Cool setpoint settings.**
- **Adjustable maximum heating and minimum cooling setpoint limits using range stops.**
- **Installer Setup mode allows changes of operating parameters.**
- **EEPROM permanently retains user settings, including setpoints, during power loss (no batteries required).**
- **Selectable °C or °F display via Installer Setup.**
- **Displayable pipe sensor temperature readout to aid in troubleshooting.**
- **Automatic pipe purge of five minutes, once every 24 hours, to ensure unrestricted flow (only when used with optional pipe sensor).**
- **Fan motor always begins on high speed to ensure sufficient torque at startup.**
- **Option to wire a remote indoor temperature sensor.**
- **Freeze protect algorithm turns on heat when needed.**
- **Energy Saving Options:**
    - **Activity Sensing- sets back thermostat to Economy mode when there is no activity with the thermostat (4, 12, or 24 hours selectable).**
    - **Remote Setback Inputs- receives dry contact input from a time switch, occupancy sensor, or hotel card key to set back thermostat to Economy mode.**
    - **Auto Fan Reset - eliminates the fan from being run all the time by automatically setting the fan to Auto (2 or 4 hour selectable).**
    - **VersaSpeed™ fan ramp algorithm automatically adjusts fan speed (low, medium, and high).**

PRODUCT DESCRIPTION

The SuitePRO™ is a family of Digital Fan Coil thermostats for residential and commercial applications such as hotels, condominiums, school classrooms, etc.

Three models are available for your application:
- TB6575A1000 – 2-pipe or 4-pipe with seasonal/manual/ automatic heat/cool changeover; 120/240 Vac.
- TB6575B1000 – 2-pipe only with seasonal or manual heat/ cool changeover; 120/240 Vac.
- TB8575A1000 – 2-pipe or 4-pipe with seasonal heat/cool changeover; 24Vac.

All three models are suitable for multiple applications. Changes in output wiring and external links between wiring terminals allow you to configure the thermostat for the appropriate application.

The applications that are available are:
- Heating or Cooling only
- Two pipes: Heat or Cool with Manual Changeover
- Two pipes: Heat or Cool with Seasonal Changeover (requires optional pipe sensor)
- Two pipes: Heat or Cool with Auxiliary Heat and Manual or Seasonal Changeover (requires optional pipe sensor)
- Four pipes: Mixed Manual and Auto Changeover
- Four pipes: Manual Changeover
- Four pipes: Auto Changeover

The fan is controlled from the thermostat. The Low, Mid, High, or Auto fan settings are easily made with a press of a key.

Valves and auxiliary electric heaters can be controlled using a relay or contactor controlled by the system switch.

Contents

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® catalog or price sheets for complete ordering number. Orders can also be placed at http://customer.honeywell.com.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:
1. Your local Honeywell Automation and Control Products sales office (check the white pages of your phone directory).
2. Honeywell Customer Care
   1885 Douglas Drive North
   Minneapolis, Minnesota 55422-4386
   (763) 954-5720
3. In Canada–Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Toronto, Ontario M1V 4Z9.

International sales and service offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.

SPECIFICATIONS

Supply Voltages:
  TB6575A1000 and TB6575B1000:
  • 120 Vac ±10% at 50/60Hz
  • 240 Vac ±10% at 50/60Hz
  TB8575A1000:
  • 20 to 30 Vac at 50/60Hz (using 24 Vac, Class 2, NEMA rated transformer)

Safety Fuse: 15 A, 250 Vac. If the safety fuse blows, the thermostat must be replaced. The fuse is not field replaceable.

Electrical Ratings:

Table 1. Electrical Ratings.

Component	Amps (inductive) for:		
	24 Vac	120 Vac	240 Vac
Fan Relay	1.0 A	6.0 A	3.0 A
Heat/Cool Relay	1.0 A	1.0 A	1.0 A

Environmental Ratings:
  Temperature:
    Operating Range: 18°C to 49°C (0°F to 120°F).
    Shipping and Storage Range: -29°C to 49°C (-20°F to 120°F).
  Humidity: 5% to 90% RH, non-condensing.

Onboard Temperature Sensor:
  Type: 10K NTC
  Working Range: 18°C to 49°C (0°F to 120°F)
  Display Range: 0°C to 37°C (32°F to 99°F)
  Accuracy ±2.0°F at 70°F

Remote Temperature Sensor (*optional*):
  Type: 20K NTC
  Working Range: 18°C to 49°C (0°F to 120°F)
  Display Range: 0°C to 37°C (32°F to 99°F)
  Accuracy ±2.0°F at 70°F

Remote Pipe Sensor (*optional*):
  Type: 20K NTC
  Working Range: 0°C to 93°C (32°F to 199°F)
  Display Range: 0°C to 93°C (32°F to 199°F)
  Accuracy ±5.0°F over the temperature sensing range

Remote Setback Input: Dry contact, maximum resistance of 100 ohms. TB6575 – 9Vdc, < 4 mA; TB8575 – 16 Vdc, < 5 mA. Note Electrical WARNING on page 3.

Remote Setback Range:
  Heating: 10°C to 21°C (50°F to 70°F).
  Cooling: 22°C to 32°C (72°F to 90°F).

Enclosure: Plastic (cover, sub-base, and optional adaptor plate)

Junction Box Mounting: Direct mounting on a horizontal single gang NEMA 2 x 4 in. surface mount electrical box, or on 4 x 4 in. box or vertical 2 x 4 in. surface mount electrical box with the optional 50033847-001 adapter plate.

Dimensions: See Fig. 1 on page 3.

Wiring: 11 screw-in terminals located on the sub-base capable of accepting up to 2 x 18 AWG (0.8 sq. mm), 1 x 16 AWG (1.3 sq. mm), or 1 x 14 AWG (2.1 sq. mm) wires. Accepts stranded or unstranded 14-28 gauge wire.

NOTES:
1. The TB6575A1000 model is pre-fitted with color-coded fly leads (16 AWG) attached to seven terminals.
2. The TB6575B1000 model is pre-fitted with color-coded fly leads (16 AWG) attached to six terminals.
3. The TB8575A1000 model does not have fly leads attached to any terminals.
4. See Table 3 on page 5 for fly lead usage.

Minimum Operational Life (at maximum load):
  Thermostat contacts: 100,000 cycles

Approvals:
  CSA Certified C/US for Canada and the U.S.A. Meets the same requirements as UL-873.
  FCC Part 15 Class B

Accessories:
• 50033847-001 – Adapter plate for mounting on a vertical 2 x 4 in. single-gang or double-gang NEMA standard vertical switch box.
• TR21 – 20K Ohm NTC Non-Linear Remote temperature sensor.
  Other acceptable remote temperature sensors are —
  • 20K Ohm: C7041B2005, C7041B2013, C7041C2003, C7041P2004, C7770A1006, C7772A1004, and C7772A1012
  • 10K Ohm (for averaging only): TR21-A
• PS20 – Remote pipe sensor (20K Ohm)
• W6380B1005 – Fan Coil Unit Relay Control Center

Models, Applications, and Features

Table 2 identifies the applications and features of each model.

Table 2. Applications and Features

Models	Applications		Features							
	Heat/Cool/Auto	Pipes	Voltage	Number of Relays[a]	Energy Savings Input	Fan: On, Auto, or 3 speed	Manual/Auto Changeover	Remote Sensor	Back Light	Pipe Sensor[b]
TB6575A1000	All	2 or 4	120 or 240 Vac	5	Yes	Yes	Yes	Yes	Yes	Yes
TB6575B1000	Heat or Cool	2	120 or 240 Vac	4						
TB8575A1000	All	2 or 4	24 Vac	5						

[a] The five relays are wired via terminals W, Y, Gh, Gm, and Gl. Relay 1 controls Heat open (W) or Cool open (Y). Relay 2 controls Cool open or Electrical heater output (Y/A). Relays 3, 4, and 5 control the High, Medium, and Low fan speeds respectively (Gh, Gm, and Gl).
  NOTE: In 2-pipe configurations without Auxiliary Heat, only 4 relays are used; relay 2 (Y/A) is not used.
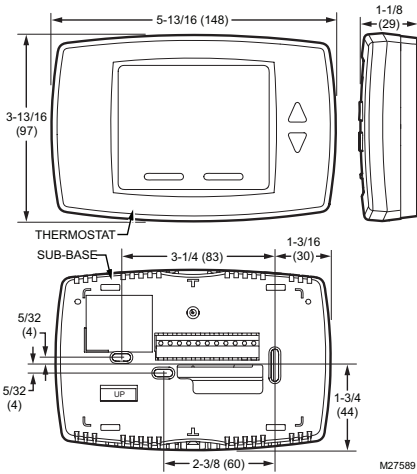[b] Pipe sensor is optional.

Dimensions

Fig. 1. Dimensions in inches and mm.

INSTALLATION

When Installing this Product…

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained and experienced service technician.

⚠ WARNING

Risk of electrical shock.
Can cause severe injury, property damage or death.
Disconnect power supply before installation and before servicing.

IMPORTANT
The thermostats are line voltage powered devices. All wiring must comply with national and local electrical codes, ordinances and regulations. Provide disconnect means and overload protection, as required.

The TB8575A1000 thermostat must be powered by an Approved 24 Vac, Class 2, NEMA rated transformer (such as a W6380 Relay Control Center).

Location

The thermostats are the temperature control element in a fan coil or air-conditioning system. They must be located about 1.5m (5 ft.) above the floor, in a position with good air circulation, to sense room temperature.

IMPORTANT
Do not mount device where it can be affected by:
1. Drafts or dead spots behind doors or in corners.
2. Hot or cold air from ducts.
3. Radiant heat from the sun or appliances.
4. Unheated (uncooled) areas such as an outside wall behind the thermostat.
5. Concealed pipes or chimneys.

Mounting and Wiring

⚠ CAUTION

Equipment Damage Hazard.
Operation at low temperatures can cause fan coil damage.
This thermostat is not a safety device. Do not use it where the space temperature is outside of the device operating range.
A display of two dashes, – –, for the Room Temp display indicates a sensor failure or a temperature outside of the thermostat operating range of 18°C to 49°C (0°F to 120°F). With – – displayed, the thermostat ceases to operate. When the temperature returns to within its operating limits, the thermostat returns to operation.
The optional freeze protect feature should be used if low temperatures can occur.

The thermostat must be mounted flush to the wall. The thermostat can be mounted directly to a 2 x 4 in. horizontal junction box (see Fig. 2 on page 4). An optional adaptor plate (50033847-001) can be used with a 4 x 4 in. or a vertical junction box for which mounting screws are supplied (see Fig. 3 on page 4).

1. Prepare the supply wires:
   a. Mounting on a 4 x 4 in. or vertical 2 x 4 in. junction box:
      (1) Feed the supply wires through the junction box and the opening in the adaptor plate.
      (2) Affix the adaptor plate to the junction box using the screws provided.
   b. Mounting on a horizontal 2 x 4 in. junction box:
      Feed the supply wires through the opening of the junction box.
2. Attach the supply wires:
   a. For the TB6575A1000 and TB6575B1000 models:
      (1) Push the fly lead wires through the wiring access hole in the sub-base.
      (2) Attach the fly lead wires to the supply wires using wire nuts (not provided).See Table 3 on page 5 for terminal and lead identification.
      (3) Push the fly lead and supply wires back into the junction box.
   b. For the TB8575A1000 model (which does not have pre-wired fly leads):
      (1) Attach the supply wires directly to the terminals on the sub-base. See Table 3 on page 5 for terminal identification.
      (2) Push the supply wires back into the junction box.
3. Mount the sub-base:
   a. Mounting on a 4 x 4 in. or vertical 2 x 4 in. junction box:
      Align the two holes at the top edges of the sub-base with the two pins on the adaptor plate. Attach the sub-base to the adaptor plate using the screws provided.
   b. Mounting on a horizontal 2 x 4 in. junction box:
      Attach the sub-base to the junction box using the screws provided.
4. Thoroughly check the wiring to the sub-base before finally mounting the thermostat on the wall.
5. Center the thermostat body over the sub-base, and press down firmly to engage the four tabs on the sub-base and snap the thermostat body into place.
6. Use the provided safety screw to secure the thermostat main body to the sub-base.
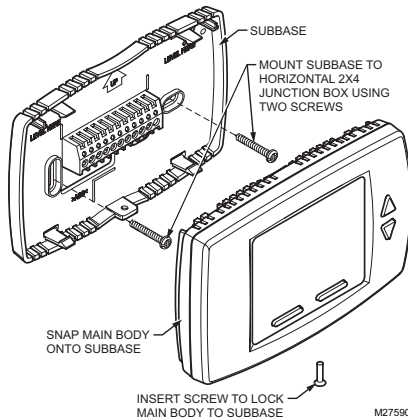7. If using the adaptor plate, press the adaptor plate screw cover into place.

Fig. 2. Mounting sub-base and thermostat to 2 x 4 in. junction box.

NOTE: MIDDLE HOLES OF ADAPTOR PLATE ARE USED FOR MOUNTING TO A 2X4 VERTICAL JUNCTION BOX. USE OUTER HOLES FOR MOUNTING TO A 4X4 WIRING BOX.
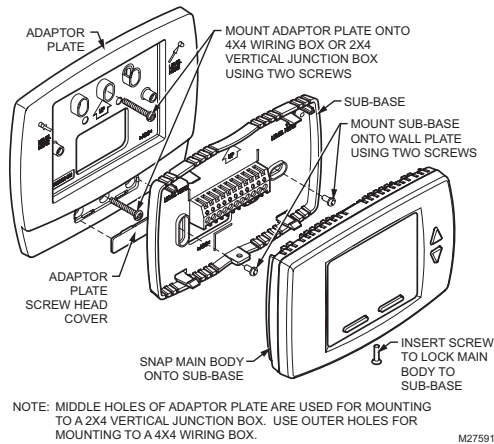
Fig. 3. Mounting sub-base and thermostat using the adaptor plate (50033847-001).

Terminal Wiring

Table 3 on page 5 provides the terminal wiring for each model and application.

NOTE: The TB6575A1000 and TB6575B1000 models have color coded fly leads attached to the terminals. Refer to Table 3 for the color codes.

The Terminal Identifiers in Table 3 have the following meaning:

- C: Common 24 Vac
- Gh: High speed fan relay
- Gl: Low speed fan relay
- Gm: Medium speed fan relay
- L: Line voltage power (120/240 Vac)
- N: Line voltage ground (120/240 Vac)
- Ps: Pipe sensor (optional)
- R: 24 Vac power
- Rs: Remote sensor (optional)
- SB: Remote setback (optional)
- Sc: Ground (required if remote sensor, pipe sensor, and/or remote setback are connected)
- W/Y: W = Heating; Y = Cooling (2 pipe only)
- Y/A: Y = Cooling; A = Electrical heater output

Table 3. Terminal Wiring.

Model	Application	Terminals										
		1	2	3	4	5	6	7	8	9	10	11
TB6575A1000 — 120/240 Vac												
	Terminal Identifier	L	W/Y	Y/A	Gl	Gm	Gh	N	Rs[a]	Sc[b]	SB[c]	Ps[d]
	Fly lead wire color	Black	Orange	Yellow	Red	Blue	Brown	White	None[e]			
	2 pipes; Heat only	✓[f]	W		✓	✓	✓	✓	O[g]	R[h]	O	
	2 pipes; Cool only	✓	Y		✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Manual Changeover	✓	W/Y		✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Seasonal Changeover	✓	W/Y		✓	✓	✓	✓	O	R	O	✓
	4 pipes; Heat and Cool with Manual Changeover	✓	W	Y	✓	✓	✓	✓	O	R	O	
	4 pipes; Heat and Cool with Auto Changeover	✓	W	Y	✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Auxiliary Heat	✓	W/Y	A	✓	✓	✓	✓	O	R	O	✓
	4 pipes; Heat and Cool with Manual Changeover or Auto Changeover	✓	W	Y	✓	✓	✓	✓	O	R	O	
TB6575B1000 — 120/240 Vac												
	Terminal Identifier	L	W/Y	n/a[i]	Gl	Gm	Gh	N	Rs[a]	Sc[b]	SB[c]	Ps[d]
	Fly lead wire color	Black	Orange		Red	Blue	Brown	White	None[e]			
	2 pipes; Heat only	✓	W		✓	✓	✓	✓	O	R	O	
	2 pipes; Cool only	✓	Y		✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Manual Changeover	✓	W/Y		✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Seasonal Changeover	✓	W/Y		✓	✓	✓	✓	O	R	O	✓
TB8575A1000 — 24 Vac												
	Terminal Identifier[j]	R	W/Y	Y/A	Gl	Gm	Gh	C	Rs[a]	Sc[b]	SB[c]	Ps[d]
	2 pipes; Heat only	✓	W		✓	✓	✓	✓	O	R	O	
	2 pipes; Cool only	✓	Y		✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Manual Changeover	✓	W/Y		✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Seasonal Changeover	✓	W/Y		✓	✓	✓	✓	O	R	O	✓
	4 pipes; Heat and Cool with Manual Changeover	✓	W	Y	✓	✓	✓	✓	O	R	O	
	4 pipes; Heat and Cool with Auto Changeover	✓	W	Y	✓	✓	✓	✓	O	R	O	
	2 pipes; Heat or Cool with Auxiliary Heat	✓	W/Y	A	✓	✓	✓	✓	O	R	O	✓
	4 pipes; Heat and Cool with Manual Changeover or Auto Changeover	✓	W	Y	✓	✓	✓	✓	O	R	O	

[a] Rs; Remote sensor is optional.
[b] Required when Rs, SB, or Ps is wired.
[c] SB; Remote setback is optional.
[d] Pipe sensor: Discrete, Analog, or Aquastat®.
[e] These terminals (8, 9, 10, and 11) do not have lead wires attached to them.
[f] A check mark (✓) indicates the terminal is used in that application. Rs and SB terminal connections are optional. If a terminal is left blank, it is not used in that application.
[g] O = Optional
[h] R = Required if Rs, SB, or Ps is wired.
[i] Terminal 3 is not used on the TB6575B1000 model.
[j] The TB8575A1000 model does not have fly lead wires attached to any terminals.

Accessory Wiring

Fan-Relay Control Center Wiring

The fan coil thermostats are typically used with load relays to switch line voltage loads. Honeywell offers a convenient fan coil relay center, the W6380B1005, which provides 24 Vac power, three interlocked fan relays, and wiring center terminations for valve, relay and contactor loads. The W6380 schematic is illustrated in Fig. 4.
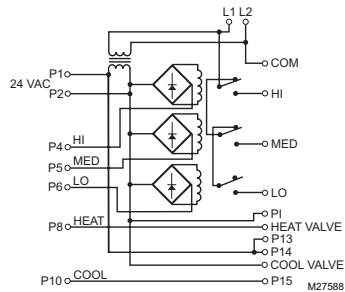

Fig. 4. W6380 wiring diagram.

Remote Pipe Sensor Wiring

The remote pipe sensor is used for 2 pipe auto changeover. The pipe sensor will sense the temperature in the pipes to tell the thermostat when the system is set for Heat or Cool.

1. Check Installer Setup Number (ISU) 5 to ensure it is set to the desired value. (See Table 4 on page 10).
2. Wire pipe sensor to Sb and Ps terminals.
3. Attach pipe sensor to the pipe.
4. Change pipe sensor thresholds for cooling or heating by setting Installer Setup Numbers (ISU) 6 and 7 to desired values.

Remote Temperature Sensor Wiring

The TR21 is an optional remote temperature sensor that can be used as an alternative to the internal sensor. In addition to the TR21, other Honeywell sensors that use a 20k Ohm curve may be used as the remote sensor.

⚠ WARNING

Risk of electrical shock.
Can cause severe injury, property damage or death.
Disconnect power supply before servicing.

⚠ CAUTION

Erratic System Operation Hazard.
Failure to follow proper wiring practices can introduce disruptive electrical interference (noise).
Keep wiring at least one foot away from large inductive loads such as motors line starters, lighting ballasts, and large power distribution panels. Shielded cable is required in installations where these guidelines cannot be met. Ground shield only to grounded controller case.

IMPORTANT
All wiring must comply with local electrical codes and ordinances or as specified on installation wiring diagrams.

— Wall module wiring can be sized from 16 to 22 AWG (1.31 to 0.33 sq. mm) depending on the application.
— The maximum length of wire from the thermostat to a wall module is 1000 ft. (305 m).
— Twisted pair wire is recommended for wire runs longer than 100 ft. (30.5 m).

1. Check Installer Setup Number (ISU) 4 to ensure it is set to use the remote sensor. (See Table 4 on page 10).
2. Wire sensor to Rs and Sc thermostat terminals.
3. Push excess wire back into the hole. Plug the hole using non-hardening caulk, putty or insulation to prevent drafts from affecting performance.
4. Remove sensor cover.
5. Mount sensor to the wall or junction box using the screws and anchors provided.
6. Level the sensor for appearance only. Device functions correctly even when not level.
7. Replace sensor cover.

NOTE: For complete wiring instructions, please follow the installation instructions provided with the remote sensor.

Sensor Wiring for Temperature Averaging

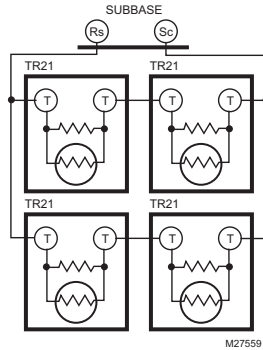Fig. 5 – Fig. 7 illustrate sensor wiring for temperature averaging applications.

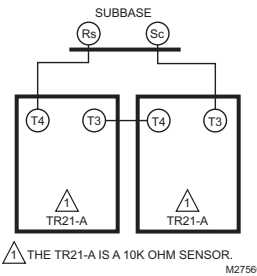**Fig. 5. Wiring four TR21 (20K ohm) sensors.**

⚠ THE TR21-A IS A 10K OHM SENSOR.

Fig. 6. Wiring two TR21-A (10K ohm) sensors to provide a temperature averaging network.

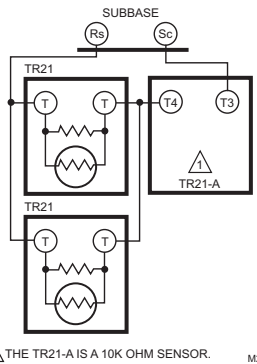⚠ THE TR21-A IS A 10K OHM SENSOR.

Fig. 7. Wiring two TR21 (20K ohm) sensors and one TR21-A (10K ohm) sensor to provide a temperature averaging network.

Thermostat Wiring Diagrams

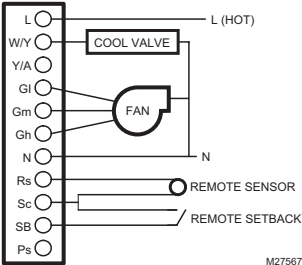The figures in this section illustrate typical wiring for:
- TB6575A1000 and TB6575B1000 fan coil thermostats, which are 120/240 Vac powered. Refer to Fig. 8 – Fig. 14, beginning on page 7,
- TB8575A1000 model, which is 24 Vac powered. Refer to Fig. 15 – Fig. 21, beginning on page 8.
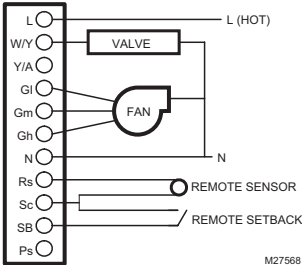
120/240 Vac Wiring Diagrams (TB6575A/B)
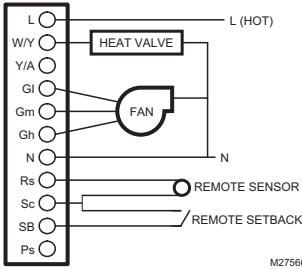
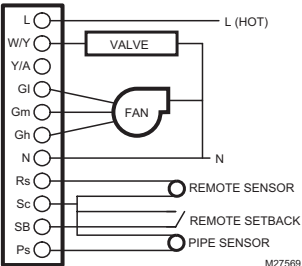**Fig. 8. Two pipes Heat-only wiring diagram (120/240 Vac shown).**

Fig. 9. Two pipes Cool-only wiring diagram (120/240 Vac shown).

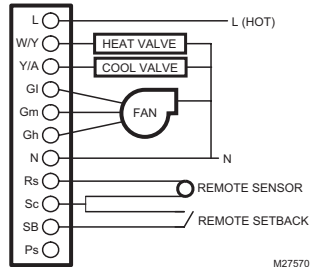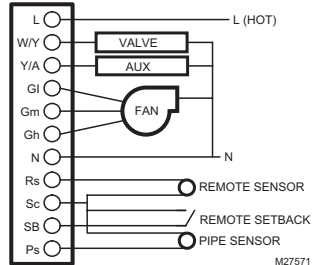**Fig. 10. Two pipes (Heat or Cool) Manual Changeover wiring diagram (120/240 Vac shown).**

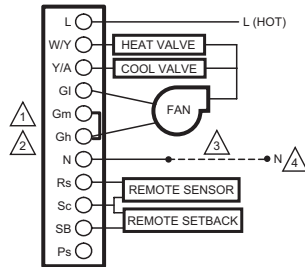**Fig. 11. Two pipes (Heat or Cool) Auto Changeover wiring diagram (120/240 Vac shown).**

Fig. 12. Four pipes (Heat and Cool) Manual/Auto Changeover wiring diagram (120/240 Vac shown).

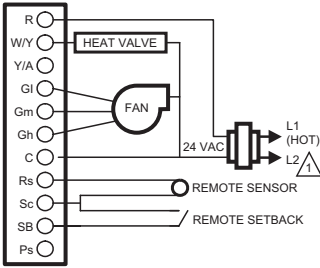**Fig. 13. Two pipes (Heat or Cool) with Auxiliary Heat and Manual Changeover wiring diagram (120/240 Vac shown).**

1 REMOVE PRE-WIRED WIRE FROM TERMINAL Gm (MID FAN SPEED).

2 JUMPER TERMINALS Gm AND Gh (MID AND HIGH FAN SPEEDS). FAN MEDIUM SETTING WILL OPERATE ON HIGH SPEED.

3 CONNECT TERMINAL N TO THE MID FAN SPEED WIRE FROM THE PREVIOUS SYSTEM.

4 REWIRE THE PREVIOUS MID SPEED FAN WIRE TO THE NEUTRAL CIRCUIT IN THE SYSTEM.

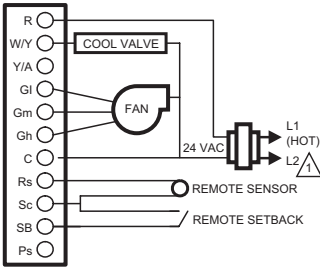**Fig. 14. Wiring diagram when missing a wire for electromechanical retrofit (120/240 Vac shown).**

24 Vac Wiring Diagrams (TB8575)

For the TB8575A1000 model, a 24 Vac Class 2 NEMA rated transformer must be used.
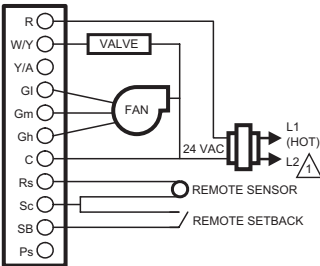

Fig. 15. Two pipes Heat-only wiring diagram (24 Vac shown).

Fig. 16. Two pipes Cool-only wiring diagram (24 Vac shown).

Fig. 17. Two pipes (Heat or Cool) Manual Changeover wiring diagram (24 Vac shown).

Fig. 18. Two pipes (Heat or Cool) Auto Changeover wiring diagram (24 Vac shown).

Fig. 19. Four pipes (Heat and Cool) Manual/Auto Changeover wiring diagram (24 Vac shown).

Fig. 20. Two pipes (Heat or Cool) with Auxiliary Heat and Manual Changeover wiring diagram (24 Vac shown).

REMOVE PRE-WIRED WIRE FROM TERMINAL Gm (MID FAN SPEED).

JUMPER TERMINALS Gm AND Gh (MID AND HIGH FAN SPEEDS). FAN MEDIUM SETTING WILL OPERATE ON HIGH SPEED.

CONNECT TERMINAL C TO THE MID FAN SPEED WIRE FROM PREVIOUS SYSTEM.

REWIRE THE PREVIOUS MID FAN SPEED WIRE TO THE NEUTRAL CIRCUIT IN THE SYSTEM.

POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

M27579

Fig. 21. Wiring diagram when missing a wire for electromechanical retrofit (24 Vac shown).

Removing the Thermostat

⚠ WARNING

Risk of electrical shock.
Can cause severe injury, property damage or death.
Disconnect power supply before servicing.

⚠ CAUTION

Equipment Damage Hazard.
Improper removal can damage the thermostat.
Carefully follow the thermostat removal directions.

If it is necessary to remove the thermostat from the sub-base, refer to Fig. 22 on page 9 and perform the following steps:
1. Turn off the thermostat by pressing the system button until OFF displays.
2. Remove the power source from the thermostat.
3. Remove the small safety screw at the bottom of the thermostat.
4. Use both hands to pull the thermostat straight away from the sub-base.

M27592

Fig. 22. Removing the thermostat.

SETUP

The thermostat provides an LCD display, two buttons below the display for System and Fan control and two adjustment buttons (Up and Down) to the right of the display. See Fig. 24.

Settings, including setpoints, are permanently retained in EEPROM in case of a power outage.

Fig. 23 illustrates all the possible LCD display elements. Only those elements pertinent to the current settings and status (including the text for the two buttons, System and Fan), actually display.

Fig. 23. LCD display with all possible elements shown.

Power-up

At power-up, the thermostat's LCD shows all display segments for two seconds, enters a self-test mode for a few seconds, and then displays the current room temperature (default screen), as shown in Fig. 24.

NOTE: If there is a temperature sensor failure or the temperature is outside of the operating range, the room temperature display shows two dashes, _ _.
When the sensor returns to its operating range, the temperature display resumes.
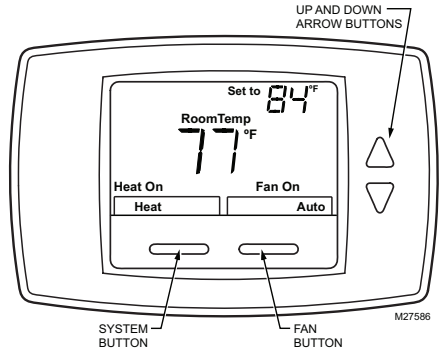
Fig. 24. LCD display showing default screen.

⚠ CAUTION

Equipment Damage Hazard.
Power overload will damage the thermostat.
The thermostat has a safety fuse rated at 15 A / 250 Vac. If the fuse blows, the thermostat must be replaced. The fuse is not field replaceable.

This fuse is provided as a safety feature to prevent fire if the thermostat is overloaded.

Installer Setup (IS) Mode

Installer Setup Mode allows you to configure the thermostat for your application.

To enter Installer Setup Mode:
• **Press and hold both the System button (labeled Heat/ Cool) and the Up Arrow button for three (3) seconds.**

This displays the setup screen on the LCD. See Fig. 25.

NOTE: Exiting Installer Setup Mode is the same as the method for entering setup mode.

Table 4 provides the setup codes (IS codes) and values. To enter the setup parameters:
1. Press the System (Heat/Cool) button to cycle through the IS codes, which display in the upper right following the word SETUP.
2. Press the Up or Down Arrow buttons to cycle through the option values for the currently displayed IS code. The values display in the center of the screen.

3. After the desired value displays, press the System button to store your value selection and display the next IS code.
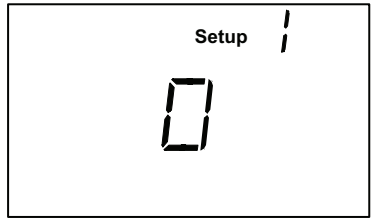
Fig. 25. Installer Setup (IS) mode screen.

Table 4. Installer Setup (IS) Codes and Options.

IS Code	Code Description	Option Value	Option Description (Default value shown in Bold)	Notes
1	Line Voltage Selection	**0**	**120 Vac power supply (Default)**	
		1	240 Vac power supply	
2	System Type	0	Heat only	
		1	Cool only	
		2	Two pipes: Heat or Cool; Manual Changeover	
		3	Two pipes: Heat or Cool; Seasonal Changeover (requires optional pipe sensor)	
		4	Four pipes: Manual Changeover	
		5	**Four pipes: Auto Changeover (Default)**	
		6	Two pipes: Heat or Cool; with Auxiliary Heat (requires optional pipe sensor).	Allows auxiliary heat to turn on when pipes have cold water.
		7	Four pipes: Manual and Auto Changeover	
3	Valve Output Type	**0**	**N.O. (normally open) – ON/OFF (Default)**	
		1	N.C. (normally closed) – ON/OFF	
4	Sensor Type	**0**	**Onboard Sensor (Default)**	
		1	Remote Sensor (TR21 or other 20K Ohm sensor)	
5	Pipe Sensor	0	Default mode is Heat: N.O. (normally open) Input. Only displays when system type 3 or 6 is selected.	The Pipe Sensor code automatically displays based on the System Type (IS code #2) selection. For example, only when you select the value 3 or 6 for the System Type, will the Pipe Sensor code and its values display. • Pipe sensor will flash on display screen if analog input (#4) is lost. • Pipe sensor status and water temperature can be checked in test mode (see "Installer Test (IT) Mode" on page 12 for details) • Pipe sensor incorporates pipe purge feature (see "Pipe Purge" on page 13 for details).
		1	Default mode is Cool: N.O. (normally open) Input. Only displays when system type 3 or 6 is selected.	
		2	Default mode is Heat: N.C. (normally closed) Input. Only displays when system type 3 or 6 is selected.	
		3	Default mode is Cool: N.C. (normally closed) Input. Only displays when system type 3 or 6 is selected.	
		4	**Analog input (Default).** NTC20K, whose curve is the same as TR21. Only displays when system type 3 or 6 is selected.	
6	Pipe Sensor Threshold for Cooling	50 to 65	Range is 50°F to 65°F. **Default is 60°F.**	Changes to Cool when pipe temperature is below threshold.
7	Pipe Sensor Threshold for Heating	75 to 90	Range is 75°F to 90°F. **Default is 80°F.**	Changes to Heat when pipe sensor temperature is above threshold.
8	Temperature Scale	**0**	**Degrees Fahrenheit (°F); Default.**	
		1	Degrees Celsius (°C).	
9	Fan Control Type	**0**	**User can choose Constant or Cycle (Default)** 3-speed (Low > Medium > High) or Auto	When fan is in Auto (using cycle mode), the fan ramping algorithm is used.
		1	Cycle only (Fan is in Auto mode)	
10	Dead Band for 4-Pipe Auto Changeover	2 to 9	Range is 2 to 9. **Default is 3**	Only displays for four pipe configurations (system types 4, 5, or 9) and is used for Auto Changeover.

Table 4. Installer Setup (IS) Codes and Options. (Continued)

IS Code	Code Description	Option Value	Option Description (Default value shown in Bold)	Notes
11	CPH Value for Heat	1 to 12	Range is 1 to 12. **Default is 4**.	The number selected indicates the maximum times Heating is cycled on per hour (CPH).
12	CPH Value for Cool	1 to 6	Range is 1 to 6. **Default is 3**.	The number selected indicates the maximum times Cooling is cycled on per hour (CPH).
13	CPH for Auxiliary Electrical Heater	1 to 12	Range is 1 to 12. **Default is 6.**	The number selected indicates the maximum times Auxiliary Heating is cycled on per hour (CPH).
14	Display Temperature Adjustment	-4 to 4	Range is -4°F to +4°F; **Default is 0**°F.	
15	Temperature Display Mode	0	Display Room Temperature	
		1	Display Setpoint	
		2	**Display Temperature and Setpoint; Default.**	
16	Setpoint Range Stop for Heating	50 to **90**	Range is 50°F to 90°F. **Default is 90°F.**	
17	Setpoint Range Stop for Cooling	**50** to 90	Range is 50°F to 90°F. **Default is 50°F.**	
18	Keypad Lockout	**0**	**All keys are available; Default**	
		1	The System button (Heat/Cool) is locked out.	
		2	Both the System and Fan buttons are locked out.	
		3	All buttons are locked out (System, Fan, Up Arrow, and Down Arrow). The LCD displays LOCKED.	
19	Remote Setback	**0**	**Disabled; Default**	
		1	Hotel card enabled N.O. with 1 second software delay going from UnOccupied to Occupied; 2 minute delay going from Occupied to UnOccupied.	
		2	Hotel Card enabled N.C. with 1 second software delay going from UnOccupied to Occupied; 2 minute delay going from Occupied to UnOccupied.	
		3	Hotel Card enabled N.O. with 1 second software delay going from UnOccupied to Occupied; 30 minute delay going from Occupied to UnOccupied	
		4	Hotel Card enabled N.C. with 1 second software delay going from UnOccupied to Occupied; 30 minute delay going from Occupied to UnOccupied.	
20	Remote Setback for Heating	50 to 70	Range is 50°F to 70°F. **Default is 64°F.**	Used when the thermostat is in the Unoccupied state.
21	Remote Setback for Cooling	72 to 90	Range is 72°F to 90°F. **Default is 79°F.**	
22	Activity Sensing	**0**	**Disabled; Default**	Anytime the thermostat is not touched (no single key is pressed) for the duration selected, the thermostat automatically falls back into the Unoccupied setpoints. When any key is pressed, the thermostat controls to Occupied mode

NOTE: IS code #19 (Remote Setback) must be disabled (value = 0) in order to display the Activity Sensing code. |
		1	4 hour sensing	
		2	12 hour sensing	
		3	24 hour sensing	

Table 4. Installer Setup (IS) Codes and Options. (Continued)

IS Code	Code Description	Option Value	Option Description (Default value shown in Bold)	Notes
23	Freeze Protection	0	Disabled; Default	This feature can not activate when the application is Cool only.
		1	Enabled – Stat cycles On Heat when room temperature reaches 40°F (4°C), and disables Heat when room temperature reaches below 46°F (8°C). The LCD displays FREEZE PROTECT.	
24	Auto Fan Reset	0	Inactive; Default	Auto Fan Reset is not allowed (does not display) when the fan control type is set to Cycle, (IS code #9 - value 1).
		1	Resets back to Auto after 2 hours. The start time is calculated after the initial call for Heat/Cool is satisfied. Then, the two (2) hour timing begins.	
		2	Resets back to Auto after 4 hours. The start time is calculated after the initial call for Heat/Cool is satisfied. Then, the four (4) hour timing begins.	

Installer Test (IT) Mode

Installer Test Mode allows you to simulate the operation of the the thermostat for your application and view the version control information of the thermostat.

To enter Installer Test Mode:
- **Press and hold both the Up arrow button and the Down Arrow button for three (3) seconds.**

This displays all segments of the LCD screen on the LCD. See Fig. 23 on page 9.

Table 5 provides the Test codes (IT codes) and values. To enter the IT codes:
1. Press the System (Heat/Cool) button to cycle through the IT codes, which display in the upper right above the word TEST.
2. Press the Up or Down Arrow buttons to cycle through the values for the currently displayed IT code. The values display in the center of the screen.
3. After the desired value displays, press the System button to store your value selection and display the next IT code.

NOTE: Exiting Installer Test Mode is the same as the method for entering test mode,
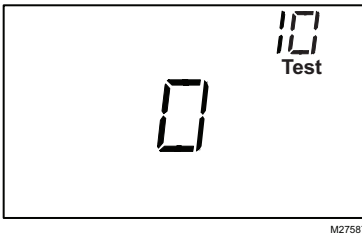
Fig. 26. Installer Test (IT) mode screen.

Table 5. Installer Test (IT) Codes and Options.

IT Code	Code Description	Option Value	Option Description
10	Heat Control	0	Close
		1	Open
20	Auxiliary Heat Control	0	Close
		1	Open
30	Cool Control	0	Close
		1	Open
40	Fan Control	0	Close
		1	Low Speed
		2	Medium Speed
		3	High Speed

Table 5. Installer Test (IT) Codes and Options. (Continued)

IT Code	Code Description	Option Value	Option Description
50	Pipe Sensor	32-199	Displays the pipe sensor temperature. Only used for System Type 3 or 6 (IS code #2, value 3 or 6). Only the Analog pipe sensor is tested.
71	Software Main version	01-99	A 2-digit number, 01-99
72	Software Vice version	01-99	A 2-digit number, 01-99
73	Configuration Data Main version	01-99	A 2-digit number, 01-99
74	Configuration Data Vice version	01-99	A 2-digit number, 01-99
75	Week Produced	01-52	A 2-digit number, 01-52
76	Year Produced	08-99	A 2-digit number, 08-99

OPERATION

PROPORTIONAL + INTEGRAL (P+I) CONTROL

Like a mechanical thermostat, the fan coil thermostats have On/Off control output. However, this output is regulated by a P+I algorithm, enabling the thermostat to control closer to setpoint than conventional thermostats. This results in performance where the space temperature is maintained within 0.75°C (1.5°F) of the setpoint regardless of fan speed.

NOTE: Integral action corrects the temperature control errors of proportional-only control, but it is slower to react to large temperature or setpoint changes.

Operating Modes

System Status Indicators

When the system status is in Heat, the thermostat displays "Heat" solidly in the display. When the heating device is active, "Heat On" displays on the LCD

When the system status is in Cool, the thermostat displays "Cool" solidly in the display. When the cooling device is active, "Cool On" displays on LCD

When the system status is in Auto Changeover, the thermostat displays "Auto" solidly in the display.

Comfort Mode

This is the normal operating mode where the thermostat controls to the setpoint selected by the user. On power-up, the user setpoint returns to the last known or default value. Control action is determined by either the default settings or the installer-set parameters; see "Installer Setup (IS) Mode" on page 10.

Energy Saving Modes

ACTIVITY SENSING

If Activity Sensing is enabled, any time the thermostat is not touched (no single key is pressed) for the duration selected, the thermostat automatically falls back into the Unoccupied setpoints. When any key is pressed, the thermostat controls to Occupied mode.

AUTO FAN RESET

If Auto Fan Reset is enabled (IS code #24, value 1 or 2), and a constant fan speed is selected, the thermostat resets the fan to Auto.
• Value = 1: The fan resets back to Auto after 2 hours.
• Value = 2: The fan resets back to Auto after 4 hours.

The start time is calculated after the initial call for Heat/Cool is satisfied. Then, the two or four hour timing begins. The fan is set back to Auto when the 2-hour or 4-hour delay expires.

REMOTE SETBACK[A]

Remote Setback is activated by a dry contact closure on the remote setback input from an occupancy sensor, time switch, or hotel card key. The thermostat controls to the user/installer defined setback setpoints for increased energy savings. The LCD displays ECONOMY SETBACK just to the right of the main temperature display to indicate the Remote Setback mode is active.

For Heat Mode, when Remote Setback is enabled, the set point changes to the remote setback heating setpoint.

For Cool Mode, when Remote Setback is enabled, the set point changes to the remote setback cooling setpoint.

For 4 pipe applications with Auto Changeover, when Remote Setback is enabled, the cool setpoint changes to the remote setback cooling setpoint and the heat setpoint changes to the remote setback heating setpoint. The new effective deadband is the difference between the remote setback heating setpoint and the remote setback cooling setpoint.

Fig. 27 illustrates the relationship between setpoints, Remote Setback, and deadband for auto changeover.
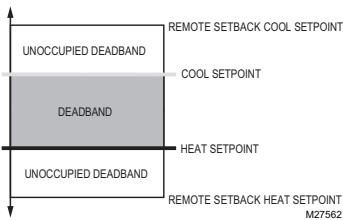

Fig. 27. Auto Changeover deadband illustration.

VERSASPEED™ FAN RAMPING

Constant or Cycle mode —
This mode allows user to select the fan to run at either Auto or at constant fan speeds (Low, Med, or Hi). Auto will cycle the fan using the fan ramping algorithm. The appropriate fan speed is selected according to Fig. 28.

Cycle mode —
In this mode, the fan is set to Auto. Auto will cycle the fan using the fan ramping algorithm. The appropriate fan speed is selected according to Fig. 28.
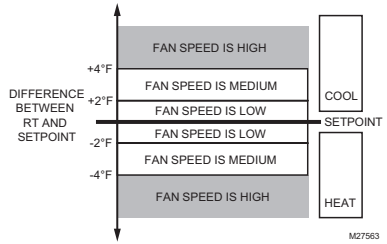
The fan ramping algorithm is illustrated in Fig. 28

Fig. 28. VersaSpeed™ fan ramping algorithm illustration.

Application Modes

This section describes the operation of each of the application modes for the SuitePRO™ fan coil thermostats.

2 PIPES (HEAT OR COOL) WITH SEASONAL CHANGEOVER

This application supports the pipe sensor as a N.O., N.C., or Analog input.

For the pipe analog sensor, see Fig. 29 and note that:
• When the pipe temperature is more than the pipe sensor Threshold for Heating value (IS code #7), the system changes to Heat mode.
• When pipe temperature is less than the pipe sensor Threshold for Cooling value (IS code #6), the system changes to Cool mode.
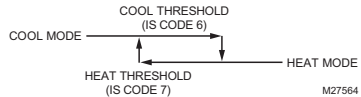• When the pipe temperature is between the two threshold values, the system mode remains unchanged.

Fig. 29. Heat/Cool Auto Changeover for pipe analog sensor.

2 PIPES (HEAT OR COOL) WITH MANUAL CHANGEOVER

In 2 pipe Manual Changeover, the thermostat system setting must manually be changed to Heat or Cool.

2 PIPES (HEAT OR COOL) WITH AUXILIARY HEAT

This application supports the pipe sensor as a N.O., N.C., or Analog input.

In Heat mode —
• If the water in pipe is hot, hot water is the heat source.
• If the water in pipe is cool, the auxiliary heat is the heat source.

In Cool mode —
• If the water in pipe is hot, the thermostat has no control.
• If the water in pipe is cool, the cool water is the cool source.

If the thermostat is configured for Auxiliary Heat, a pipe purge occurs once every 24 hours (see "Pipe Purge" on page 13).

4 PIPES (HEAT AND COOL) AUTO CHANGEOVER

In 4 pipe auto changeover, the system key is used to switch between the heating setpoint and cooling setpoints. Use the Up and Down arrow buttons to change the setpoint.

For this application, the setpoint settings and deadband are illustrated in Fig. 30. The deadband is changed via IS code #10.
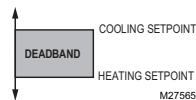

Fig. 30. 4 Pipe Auto Changeover setpoints and deadband.

Pipe Purge

Pipe purging is only active in 2 pipe fan coil modes and when a pipe sensor is configured (IS code #2; value 3 or 6).

---

[a] When Remote Setback is active, all buttons on the thermostat are disabled. However, the button combinations to access Installer Setup (IS) and Installer Test (IT) remain enabled.

When the pipe sensor senses that the pipe temperature is out of limitation and needs to change over, the purging function will turn on for 5 minutes.

If the fan speed is set to Auto and purging is on, the fan turns on only when there is a call for Heat or Cool. If there is no call for Heat or Cool, the fan does not turn on. In summary, fan control is never called by the purging function; it turns on if there is a call for Heat or Cool.

Fan Control

All models support Constant and Cycle fan modes depending on configuration.

When the fan status is in the low, medium, or high speed, "Low" "Med", or "Hi" respectively displays on the LCD. When the fan status is in auto, "Auto" displays on the LCD.

NOTE: "Auto" displays on the LCD when Cycle fan mode is active.

NOTE: See "Auto Fan Reset" on page 13.

TROUBLESHOOTING

Table 6 provides troubleshooting information.

Table 6. Troubleshooting.

Symptom	Possible Cause	Action
Display does not come on.	Thermostat is not being powered.	For TB6575A/B, check for 120/240 Vac between L and N. For TB8575A, check for 24 Vac between R and C.
Temperature settings do not change.	The upper or lower temperature limits were reached.	Check the temperature setpoints for heating and cooling (Installer Setup codes 16 and 17 respectively). Modify as needed.
	The keypad is fully locked.	Change keypad locked options (Installer Setup code #18).
Heating or cooling does not come on.	System Type selection not set to Heat or Cool or the selection is incorrect.	Set the Installer Setup code #2 (System Type) to the correct value to match the installed heating and/or cooling equipment. Verify operation of wiring and equipment in Installer Test mode.
Thermostat is calling for Heat (Heat on) or Cool (Cool on) but no heating or cooling is running.	Heating or cooling equipment is not operating.	Check wiring. Check that the Installer Setup code #2 (System Type) value matches the installed heating and/or cooling equipment. Verify operation of equipment in Installer Test mode.
Heat does not turn on (Heat On is solid in the display).	Heating equipment failure.	For TB6575A/B: 1. Check for 120/240 Vac at the equipment between power and common, (terminals L and N). 2. Check for 120/240 Vac between the heat (W) and common (N) terminals. If 120/240 Vac is present, the thermostat is functional. For TB8575A: 1. Check for 24 Vac at the equipment on the secondary side of the transformer between power and common (terminals R and C). 2. Check for 24 Vac between the heat terminal (W) and transformer common. If 24 Vac is present, the thermostat is functional. If voltage is present, check the heating equipment to find the cause of the problem.
	Loose connection or broken wire between thermostat and heating equipment.	For TB6575A/B: Check for 120/240 Vac between the heat (W) and common (N) terminals. For TB8575A: Check for 24 Vac between the heat terminal (W) and transformer common. If voltage is not present, check wire connection (loose or broken) between the thermostat and the heating equipment.
Both the heating and cooling equipment are running at the same time.	Incorrect System Type selected.	Check that the Installer Setup code #2 (System Type) value matches the installed heating and/or cooling equipment.
	Heating and cooling wires are shorted together.	Separate the shorted heating and cooling wires.

Table 6. Troubleshooting. (Continued)

Symptom	Possible Cause	Action
Cooling does not turn on (Cool On is solid in the display).	Cooling equipment failure.	For TB6575A/B: 　1. Check for 120/240 Vac at the equipment between power and common, (terminals L and N). 　2. Check for 120/240 Vac between the cool (Y) and common (N) terminals. If 120/240 Vac is present, the thermostat is functional. For TB875A: 　1. Check for 24 Vac at the equipment on the secondary side of the transformer between power and common (terminals R and C). 　2. Check for 24 Vac between the cool terminal (Y) and transformer common. If 24 Vac is present, the thermostat is functional. If voltage is present, check the cooling equipment to find the cause of the problem.
	Loose connection or broken wire between thermostat and cooling equipment.	For TB6575A/B: 　Check for 120/240 Vac between the cool (Y) and common (N) terminals. For TB875A: 　Check for 24 Vac between the cool terminal (Y) and transformer common. If voltage is not present, check the wire connection (loose or broken) between the thermostat and the cooling equipment.
Fan does not turn on in a call for Heat.	Wiring or connection failure	Check wiring and make sure the connection is correct.
Cannot select fan speed.	Fan Control Type selection is incorrect.	Check that the Installer Setup code #9 (Fan Control) value is set to zero (0).
Heating equipment is running in the Cool mode.	Incorrect System Type configured.	Check that the Installer Setup code #2 (System Type) value matches the installed heating and/or cooling equipment.
Heating equipment does not turn off and heat temperature setting is set below room temperature (Heat On is not in the display).	Incorrect System Type configured.	Check that the Installer Setup code #2 (System Type) value matches the installed heating and/or cooling equipment.
Cannot set the system setting to Heat.	System Type (Installer Setup code #2) is set to Cool Only (value = 1).	Set the Installer Setup code #2 value to match the installed heating and/or cooling equipment.
Cannot set the system setting to Cool.	System Type (Installer Setup code #2) is set to Heat Only (value = 0).	Set the Installer Setup code #2 value to match the installed heating and/or cooling equipment.
Heat On is not in the display.	System Type setting is not set to Heat and/or the temperature setting is not set above the room temperature.	Set the Installer Setup code #2 to Heat and set the temperature setting above the room temperature.
Cool On is not in the display.	System Type setting is not set to Cool and/or the temperature setting is not set below the room temperature.	Set the Installer Setup code #2 to Cool and set the temperature setting below the room temperature.
Remote sensor does not display temperatures	Incorrect IS code.	Set the Installer Setup code #4 to Remote (value = 1).
	Sensor is not compatible.	The remote sensor must be TR21 or compatible 20K NTC.
Remote Setback does not activate	Incorrect IS code.	Make sure the NO/NC and timer selection is correct. Check the value selected for IS code #19.
	Remote setpoint error.	Make sure the remote setback setpoint is correct for energy saving usage.
Activity Sensing does not exit when button pressed	All buttons are locked.	Make sure keypad lockout is disabled. Set IS code #18, value = 0.
Freeze Protection does not activate	System Type is set to Cool.	Freeze protection is not activated when system type is Cool (IS code #2; value = 1). Change System Type.
	System mode is not Off.	Set the System mode button to Off.
Auto Fan Reset does not activate	Incorrect IS code.	Set the Installer Setup code #24 to Enabled (value = 1 or 2).
	Calling for Heat/Cool setpoint couldn't be satisfied.	Only after the setpoint is satisfied, will the auto fan reset timer activate.

LIMITED TWO-YEAR WARRANTY

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of two (2) years from the date of purchase by the consumer. If, at any time during the warranty period, the product is defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option) within a reasonable period of time.

If the product is defective,
(i) return it, with a bill of sale or other dated proof of purchase, to the retailer from which you purchased it, or
(ii) package it carefully, along with proof of purchase (including date of purchase) and a short description of the malfunction, and mail it, postage prepaid, to the following address:

    Honeywell Return Goods
    Dock 4 - MN10-3860
    1885 Douglas Dr. N
    Golden Valley, MN 55422

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

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If you have any questions concerning this warranty, please write Honeywell Customer Relations, 1985 Douglas Dr., Golden Valley, MN 55422 or call 1-800-468-1502, Monday-Friday, 7:00 a.m. to 5:30 p.m., Central time. In Canada, write Retail Products ON15-02H, Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Scarborough, Ontario M1V4Z9.

CUSTOMER ASSISTANCE

If you have any questions about the operation of your thermostat, please go to customer.honeywell.com

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