

Fan Coil Thermostats

TB6575; TB8575 Digital Fan-Coil Thermostat



The TB6575A, TB6575B, and TB8575A are a family of Digital Fan-Coil thermostats for residential and commercial applications. They are great for use in hotels, condos, and school classrooms. They provide line voltage and low voltage on/off control for various fan-coil units. The three models provide control of 2 or 4 pipe fan-coil units, 120, 240, or 24 Vac, and manual or automatic heat/cool changeover. The fan can also be controlled from the thermostat, which offers three fan speeds (Low, Med, High) and Auto. Valves and auxiliary electric heaters can be controlled using a relay or contactor system switch controlled by the thermostat.

Dimensions, Approximate: 3 13/16 in. high x 5 13/16 in. wide x 1 1/8 in. deep (97 mm high x 148 mm wide x 29 mm deep)

Mounting: Direct mounting on horizontal 2 x 4 in. (50mm x 75 mm) junction box. Mounts on vertical 2 x 4 in. or 4 x 4 in junction box with optional wall plate (50033847-001)

Electrical Ratings: 120 Vac, Fan Rating: 6.0 A, Relay Rating: 1.0 A; 240 Vac, Fan Rating: 3.0 A, Relay Rating: 1.0 A

Frequency: 50 Hz; 60 Hz

Operating Humidity Range (% RH): 5 to 95% RH, non-condensing

Display: LCD

Color: Premier White®

Approvals

Canadian Standards Association: Certified

Underwriters Laboratories, Inc: Meets the same requirements as UL-

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- Simple, intuitive user interface and ease of installation
- Attractive modern styling ideal for hotels and condos
- Digital display of ambient temperature, setpoint, mode icons when cooling or heating relays operate, when energy savings mode is active, and fan status
- Four buttons allow manual control of system operation, fan speed, and temperature setpoint adjustment
- VersaSpeed™ Fan Ramp Algorithm automatically adjusts Low, Medium, High fan speed
- Optional freeze protection feature that turns on heat, if necessary
- Activity sensing algorithm sets back thermostat to economy mode
- Auto fan rest option sets back fan to auto mode
- Energy savings mode -- external energy savings input from dry contact such as time switch, occupancy sensor, or hotel cardkey overrides comfort setpoint with selectable setback heating or cooling setpoints
- Energy savings input configurable as a normally open or normally closed dry contact
- Proportional plus integral (P+I) control algorithm for precision temperature regulation
- Selectable C or F
- Adjustable deadband, in auto changeover mode, for heat and cool control
- Adjustable maximum heating and minimum cooling setpoint limits
- Installer setup mode allows changes of operating parameters
- EEPROM permanently retains user settings, including setpoints, during power loss (no batteries required)
- Capability to display temperature sensor failure for easier troubleshooting
- Optional remote temperature sensor and remote pipe sensor

Accessories:

- 50033847-001**-Adapter plate for mounting TB6575/TB8575 series fan coil thermostats to vertical, single or double-gang junction box
- C7041B2005**-20K ohm NTC Temperature Sensor with 6 in. insertion
- C7041B2013**-20K ohm NTC Temperature Sensor with 12 in. insertion
- C7041C2003**-20K ohm NTC Temperature Sensor with 18 in. insertion
- C7041P2004**-20K ohm NTC Stainless Steel Button Sensor, 11/16 in. dia.
- C7770A1006**-6 in. Duct Probe for Return Air 20 K ohm NTC non-linear Temperature Sensor
- C7772A1004**-20 K ohm NTC non-linear Wall Flush Mount Temperature Sensor without logo
- C7772A1012**-20 K ohm NTC non-linear Wall Flush Mount Temperature Sensor with Honeywell logo
- TR21**-20 K ohm NTC non-linear Temperature Wall Module
- TR21-A**-10 K ohm NTC non-linear Temperature Wall Module (for averaging only)
- PS20**-20 K ohm Pipe sensor

Product Number	Application	Setting Temperature Range		Switch Position		Changeover	Description	Voltage
		(C)	(F)	System	Fan			
TB6575A1000/U	2 or 4 pipe fan coil, Heat/Cool manual/auto changeover, 3-speed fan, 120 - 240 Vac	10 C to 30 C	50 F to 90 F	OFF-HEAT-COOL-AUTO	HI-MED-LOW-AUTO-OFF	Manual/Auto	3-Speed Fan Coil Thermostat; 2 or 4 pipe Manual/Auto Heat/Cool changeover, 3 speed fan, Supply voltage: 120/240 Vac 50/60 Hz	120 Vac (+/- 10%) or 240 Vac (+/- 10%)
TB6575B1000/U	2 pipe fan coil, Heat/Cool manual/auto changeover, 3-speed fan, 120 - 240 Vac	10 C to 30 C	50 F to 90 F	OFF-HEAT-COOL-AUTO	HI-MED-LOW-AUTO-OFF	Manual/Auto	3-Speed Fan Coil Thermostat; 2 pipe Manual/Auto Heat/Cool changeover, 3 speed fan, Supply voltage: 120/240 Vac 50/60 Hz	120 Vac (+/- 10%) or 240 Vac (+/- 10%)
TB6575C1000/U	2 or 4 pipe fan coil, Heat/Cool manual/auto changeover, 3-speed fan, 120 - 240 Vac	10 C to 30 C	50 F to 90 F	OFF-HEAT-COOL-AUTO	HI-MED-LOW-AUTO-OFF	Manual/Auto	3-Speed Fan Coil Thermostat; 2 or 4 pipe Manual/Auto Heat/Cool changeover, 3 speed fan, Supply voltage: 120/240 Vac 50/60 Hz	120 Vac (+/-10%), 240 Vac (-15% to 10%) or 277 Vac (+/- 10%)
TB8575A1000/U	2 or 4 pipe fan coil, Heat/Cool manual/auto changeover, 3-speed fan, 24 Vac	10 C to 30 C	50 F to 90 F	OFF-HEAT-COOL-AUTO	HI-MED-LOW-AUTO-OFF	Manual/Auto	3-Speed Fan Coil Thermostat; 2 or 4 pipe Manual/Auto Heat or Cool changeover, 3 speed fan, Supply voltage: 24 Vac 50/60 Hz	20 to 30 Vac