T5000

T5000 LCD Digital Fan Coil Thermostat

Johnson Controls

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T5000 LCD Digital Fan Coil Thermostats are designed to control heating, cooling, or year round air conditioning unit in Commercial, Industrial and Residential Installation. Typical Application includes the control of fan coil units, packaged terminal air conditioners and combination heating and cooling equipment. As part of the system that consists of a two-way or three-way valve and a multi-speed line voltage fan.

These aesthetic design thermostat features with Backlit Liquid Crystal Display (LCD); an attractive white color in a compact size complements any decor. The thermostat does not require any battery backup as setpoint and other parameters are stored in non-volatile memory. The intuitive operation makes the thermostat very user-friendly.

T5000 LCD Digital Fan Coil Thermostat

Features and Benefits

Backlit Liquid Crystal Display (LCD)	• Industrial Standard Graphical Symbol to eliminate native language interface • Offer Easy-to-Read Real-time control status of the environment, Graphical messages with constant backlight that brightens during user interaction
5 Function Key	• Easy-to-Use Interface Keys allow for easy commissioning and adjustment • All-in-One location function keys, Simplified user to change the setpoint and parameter • Molded Industrial Standard Graphical Symbol
Appearance	• Attractively-Style Twin-Ring Streamline ABS Plastic Cover and Base • All-in-One Enclosure Design without Protrusion of Power Circuit
Energy Saving	• Features with Unoccupied Function • Requires no batteries; EEPROM retains the last events and parameter settings after a loss of power
Installation, Service and Maintenance	• Universal Mounting with Standard Wall Box • Quick Replacement to reduce to Downtime of Service Maintenance

Function

Item	Description	T5200-TC-9JS0	T5200-TB-9JS0	T5200-TF-9JS0
User-interface	Backlight (Blue)	■	■	■
	EN/Icon	■	■	■
	°C & °F Changeable	■	■	■
Energy Saving	Ventilation Mode	■	■	■
	Setpoint Limit	■	■	■
	Occupied contact with NO/NC options		■	
	Unoccupied setpoints		■	
	Low fan in unoccupancy		■	
Other Functions	Timer on/off	■	■	■
	Display setpoint only	■	■	■
	Anti-freezing	■	■	■
	Key Lock	■	■	■
	Display temperature calibration	■	■	■
Certificate	CE	■	■	■

Product Overview

T5000 are line voltage LCD display fan coil thermostat with 3-basic models that cover all type of FCU standalone applications. There are model for cooling only, heating only and heating-cooling fan coil system integrate with 2-Wire or 3-Wire Valve Control. On-board high accuracy NTC sensor allows precision comfort control over occupied space area.

88 x 88mm size allows for 75 x 75 x 35mm standard wall box installation.

Model T5200-TC-9JS0

The Model T5200-TC-9JS0 is line voltage LCD display (with Backlit) fan coil unit thermostat that design for cooling only fan coil unit with 2-wire or 3-wire valve actuator application. Integral with System On/Off button that allows user to shutdown the T5000 and cutoff the output power for fan (cutoff the Output power for Valve Actuator). Simply pressing the fan speed button, allows user selection of Auto-High-Med-Low fan speed. All fan output by relay that can withstand max. of 5Amp (Res.). operating current.

The T5000 thermostats come with 12-hours timer that allows user to schedule On-Time or Off-Time for the fan coil depending user needs.

Model T5200-TB-9JS0

The Model T5200-TB-9JS0 is line voltage LCD display (with Backlit) fan coil unit thermostat that design for cooling or heating fan coil unit with 2-wire valve actuator application. Integral with System On/Off button that allows user to shutdown the T5000 and cutoff the output power for fan (cutoff the Output power for Valve Actuator). Simply pressing the fan speed button, allows user selection of Auto-High-Med-Low fan speed. All fan output by relay that can withstand max. of 5Amp (Res.). operating current.

The T5000 thermostats come with 12-hours timer that allows user to schedule On-Time or Off-Time for the fan coil depending user needs. Additional Dry-contact for Occupancy mode that allows better comfort control and to achieve energy cost saving.

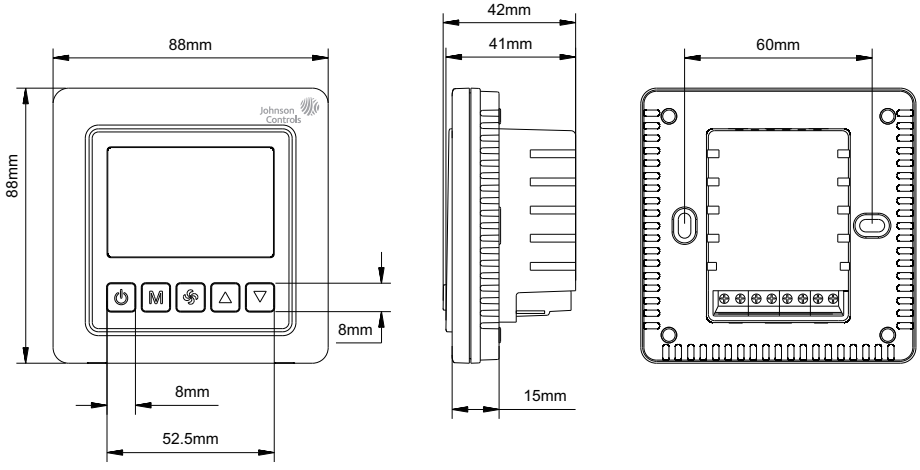
Model T5200-TF-9JS0

The Model T5200-TF-9JS0 is line voltage LCD display (with Backlit) fan coil unit thermostat that design for cooling and heating fan coil unit (4-Pipe system) with 2-wire valve actuator application. Integral with System On/Off button that allows user to shutdown the T5000 and cutoff the output power for fan (cutoff the Output power for Valve Actuator). Simply pressing the fan speed button, allows user selection of Auto-High-Med-Low fan speed. All fan output by relay that can withstand max. of 5Amp (Res.). operating current.

The T5000 thermostats come with 12-hours timer that allows user to schedule On-Time or Off-Time for the fan coil depending user needs.

IMPORTANT:
Use this T5000 Series Line Voltage Fan Coil Thermostat only as an operating control. Where failure or malfunction of the T5000 Series Thermostat could lead to personal injury or property damage to the controlled equipment or other property, additional precautions must be designed into the system. Incorporate and maintain other devices such as supervisory or alarm systems or safety or limit controls intended to warn of, or protect against, failure or malfunction of the T5000 Series Thermostat.

Dimensions



Repair and Replacement

If the thermostat fails to operate within its specifications, replace the unit. To order the replacement, refer to the Order Information section.

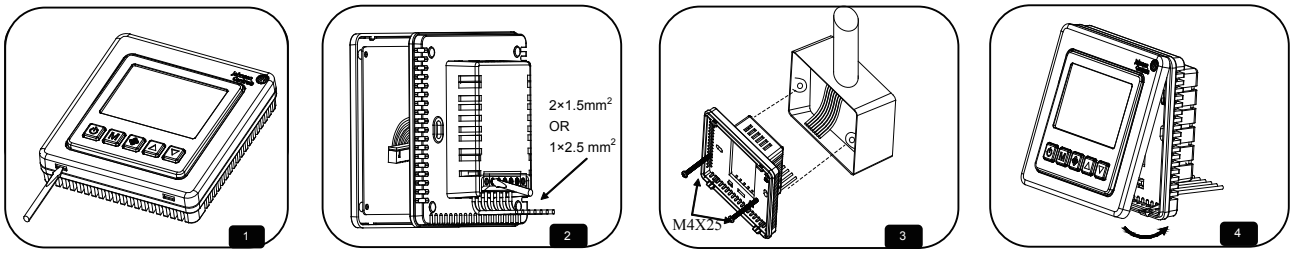
To order the replacement T5000 Series thermostat, contact the nearest Johnson Controls® representative. Specify the desired product code number from the Table 1 and Table 2.

Ordering Information

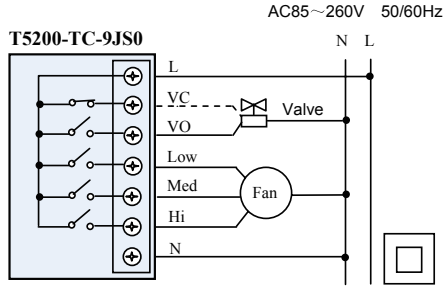
IMPORTANT:
The power supply to the thermostat must include overload protection. Failure to include overload protection may result in damage to the thermostat.

Installation

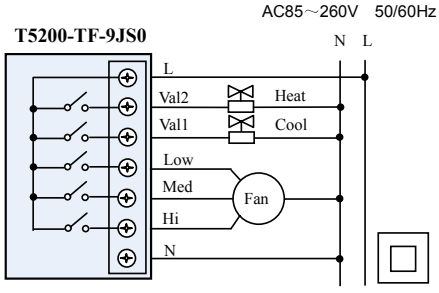
T5000 thermostats allows for 75 x 75 x 35mm standard wall box installation.



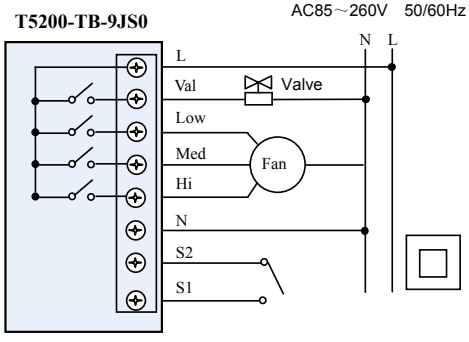
Wiring



T5200-TC-9JS0



T5200-TF-9JS0



T5200-TB-9JS0

Table 1: Model Selection Guide

					T5	2	0	0	-	T	C	-	9	J	S	0
Power	2	=	AC85-260V			2										
System	0	=	On-Off				0									
Fan Control	0	=	Auto-Hi-Med-Lo					0								
Temperature Scale	T	=	℃ or °F changeable							T						
Application	C	=	Cooling only								C					
	B	=	2-pipe Heating or cooling													
	F	=	4-pipe Heating and cooling													
Color	9	=	White										9			
Logo	J	=	With Johnson Controls Logo											J		
Compliance	S	=	Standard												S	
Version	0	=	Version 0													0

Table 2: Model Available

Models	Applications	Occupancy Mode
T5200-TC-9JSO	Cooling only	None
T5200-TB-9JSO	2-pipe Heating or cooling	Yes
T5200-TF-9JSO	4-pipe Heating and cooling	None

Table 3: Specifications

Product	**T5000 LCD Digital Fan Coil Unit Thermostat**	
	T5200-TC-9JS0	Backlit LCD Cooling only FCU Thermostat
	T5200-TB-9JS0	Backlit LCD 2-pipe Cooling / Heating FCU Thermostat with Occupancy Contact
	T5200-TF-9JS0	Backlit LCD 4-Pipe Cooling and Heating FCU Thermostat
Power Requirements	AC85-260V, 50/60 Hz	
Accuracy	±1°C	
Display Range	0 to 55°C	
Setpoint Range	10 to 30°C	
Unoccupied Mode	T5200-TB-9JS0 External Voltage-Free Contact Input Signal	
Termination	Screw terminals	
Valve Control	T5200-TC-9JS0 (Cooling only)	2 x Single-Pole, Single Throw (SPST), 5A at 250 VAC (Maximum); Relay Output
	T5200-TB-9JS0 (2-pipe Cooling or Heating)	1 x Single-Pole, Single Throw (SPST), 5A at 250 VAC (Maximum); Relay Output
	T5200-TF-9JS0 (4-pipe Cooling and Heating)	2 x Single-Pole, Single Throw (SPST), 5A at 250 VAC (Maximum); Relay Output
Fan Control	3 x Single-Pole, Single Throw (SPST) , 5A(Res.) at 250 VAC (Maximum); Relay Output for High-Med-Low Fan	
Ambient Operating Conditions	0 to 45°C 90% Non-condensing RH	
Ambient Storage Conditions	-10 to 60°C 90% Non-condensing RH	
Housing Material	PC: UL 94-V0	
Protection Class	IP20	
Certification	CE	
Dimensions	88 x 88 x 42mm	
Shipping Weight	Appr. 206g	

* When connected, the On/Off switch does not disconnect power to the unit; it only turns off or on the LCD and functions.

Johnson Controls is a global diversified technology and industrial leader serving customers in more than 150 countries. Our 142,000 employees create quality products, services and solutions to optimize energy and operational efficiencies of buildings; lead-acid automotive batteries and advanced batteries for hybrid and electric vehicles; and interior systems for automobiles. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat. Through our growth strategies and by increasing market share we are committed to delivering value to shareholders and making our customers successful.

Johnson Controls Building Efficiency delivers products, services and solutions that increase energy efficiency and lower operating costs in buildings for more than one million customers. Operating from 500 branch offices in more than 150 countries, we are a leading provider of equipment, controls and services for heating, ventilating, air-conditioning, refrigeration and security systems. We have been involved in more than 500 renewable energy projects including solar, wind and geothermal technologies. Our solutions have reduced carbon dioxide emissions by 13.6 million metric tons and generated savings of $7.5 billion since 2000. Many of the world's largest companies rely on us to manage 1.5 billion square feet of their commercial real estate.

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PUBL-6785(0811)