TS3 SERIES THERMOSTATS

FOR USE WITH FAN COIL UNITS (FCU)
IN INTERNATIONAL MARKETS

Overview

Automated Logic's TS3 Series thermostats provide flexible temperature control for office buildings, hotels, and dorm rooms. They feature an intuitive color touchscreen interface for controlling space temperature, fan speed, and operating mode. With support for BACnet MS/TP and Modbus RTU protocols, they integrate easily into building automation systems (BAS), including the WebCTRL® system. Available in multiple configurations to support specific fan coil equipment requirements and ventilation strategies, they can be used in both single-zone and multi-zone buildings.

Features/Benefits

- **Energy Management with 7-day Scheduling:** Supports multi-period, 7-day scheduling, leveraging the keycard AI/DI input to automatically adjust setpoints for energy efficiency based on room occupancy.
- **Versatile Installation for Broad Applications:** Supports 2-pipe and 4-pipe fan coil units, 3-speed Permanent Split Capacitor (PSC) or 0-10V Electronically Commutated Motor (ECM) fan control, and 0-10V or ON/OFF valve control. Can operate stand-alone or as part of a BAS using the BACnet MS/TP or Modbus RTU protocol.
- **Security and Policy Compliance:** Designed to prevent unauthorized access and tampering via password protection.
- **Comfort Management & Intelligent Control:** Features integrated temperature sensor and an intuitive push button interface for controlling space temperature, fan speed, and heating/cooling/ventilation modes.
- **Enhanced Reliability and Reduced Service Calls:** Settings are battery backed and retained after power outages. Built-in diagnostics provide clear alarm/fault codes in case of remote sensor malfunction.
- **Design Flexibility and System Integrity:** Enables customized solutions using the AI/DI input terminals to support an analog input (for remote temperature sensing) or a dry contact input (for a third party keycard or interlocks).

WebCTRL®

The WebCTRL building automation system gives you the ability to understand your building operations and analyze the results. Integrate environmental, energy, security and safety systems into one powerful management tool that helps you reduce energy consumption, increase occupant comfort, and achieve sustainable building operations.

Models and Part Numbers

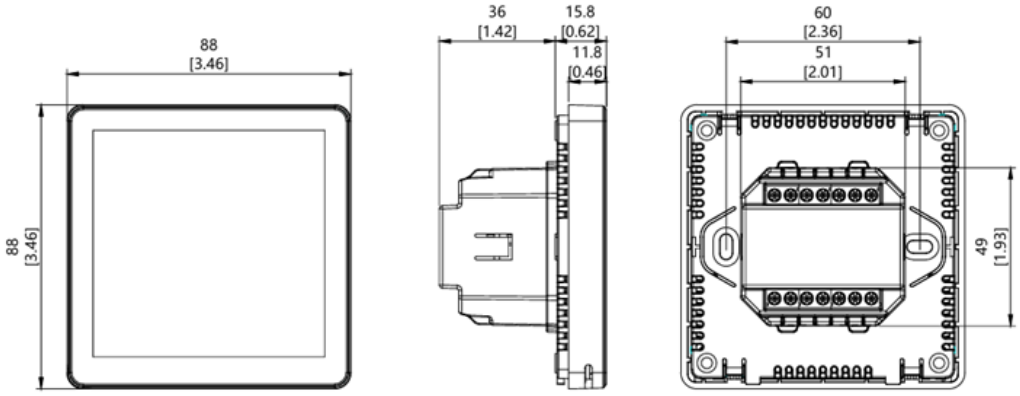
Part Number	FCU Type	Fan Motor Type	Valve Type	Protocol	Color
TS3-2-P-XW	2-pipe	Permanent Split Capacitor (PSC)	ON/OFF or 0-10V	Standalone	White
TS3-4-P-XW	4-pipe	PSC	ON/OFF or 0-10V	Standalone	White
TS3-2-E-XW	2-pipe	Electronically Commutated (EC)	ON/OFF or 0-10V	Standalone	White
TS3-4-E-XW	4-pipe	EC	ON/OFF or 0-10V	Standalone	White
TS3-2-P-MW	2-pipe	PSC	ON/OFF or 0-10V	Modbus	White
TS3-4-P-MW	4-pipe	PSC	ON/OFF or 0-10V	Modbus	White
TS3-2-E-MW	2-pipe	EC	ON/OFF or 0-10V	Modbus	White
TS3-4-E-MW	4-pipe	EC	ON/OFF or 0-10V	Modbus	White
TS3-2-P-BW	2-pipe	PSC	ON/OFF or 0-10V	BACnet	White
TS3-4-P-BW	4-pipe	PSC	ON/OFF or 0-10V	BACnet	White
TS3-2-E-BW	2-pipe	EC	ON/OFF or 0-10V	BACnet	White
TS3-4-E-BW	4-pipe	EC	ON/OFF or 0-10V	BACnet	White
TS3-2-P-XB	2-pipe	PSC	ON/OFF or 0-10V	Standalone	Black
TS3-4-P-XB	4-pipe	PSC	ON/OFF or 0-10V	Standalone	Black
TS3-2-E-XB	2-pipe	EC	ON/OFF or 0-10V	Standalone	Black
TS3-4-E-XB	4-pipe	EC	ON/OFF or 0-10V	Standalone	Black
TS3-2-P-MB	2-pipe	PSC	ON/OFF or 0-10V	Modbus	Black
TS3-4-P-MB	4-pipe	PSC	ON/OFF or 0-10V	Modbus	Black
TS3-2-E-MB	2-pipe	EC	ON/OFF or 0-10V	Modbus	Black
TS3-4-E-MB	4-pipe	EC	ON/OFF or 0-10V	Modbus	Black
TS3-2-P-BB	2-pipe	PSC	ON/OFF or 0-10V	BACnet	Black
TS3-4-P-BB	4-pipe	PSC	ON/OFF or 0-10V	BACnet	Black
TS3-2-E-BB	2-pipe	EC	ON/OFF or 0-10V	BACnet	Black
TS3-4-E-BB	4-pipe	EC	ON/OFF or 0-10V	BACnet	Black

Specifications

Product Type	FCU Thermostat
Application Options	2-pipe or 4-pipe FCU; 3-speed (PSC) or 0-10V (ECM) fan control; 0-10V or ON/OFF valve control
Communication Options	Standalone, Modbus RTU, or BACnet MS/TP (EIA-485 **A, B** wiring terminals), with baud rates up to 115,200 bps Recommended Max. of 32 devices
Power Requirements	Supply: AC 90–240VAC **(L,N)**, 50/60Hz Max. Load Current: < 5 A (Resistive) , < 2 A (Inductive) Consumption: < 1W
Wiring Termination	One 2.5 mm^2 per terminal
Display	TFT Color Touchscreen with Metric Units (°C)
Input	**AI** - Remote Temperature Sensor (low voltage) | **DI** - Keycard Accessory (Dry Contact Input)
Output Terminals	**L, M, H, Valve, 0-10V** (2-Pipe, PSC/AC Fan) **L, M, H, C-Valve, H-Valve, 0-10V, 0-10V** (4-Pipe, PSC/AC Fan) **0-10V (EC Fan), Valve, 0-10V** (2-Pipe, ECM Fan) **0-10V (EC Fan), C-Valve, H-Valve, 0-10V, 0-10V** (4-Pipe, ECM Fan) Minimum Load = 0.5 ohms | Maximum Load = <5A (resistive), <2A (inductive) | Supports line voltage (90-240VAC) for fan speed and valve control.
Environmental Operating Range	0°C to 50°C, Humidity: 5–85% RH (non-condensing)
Compliance	CE mark, LVD 2014/35/EU, EMC 2014/30/EU, RoHS 2011/65/EU, REACH #1907/2006
Enclosure	PC+ABS UL94-5 Fire Retardant, IP30 rated, 88(H) × 88(W) × 15.8(D) mm
Scheduling	7-day/4 periods per day
Temperature Sensor	Accuracy: ±1°C | Range: 5 to 35°C
Humidity Sensor	Accuracy: ±5% | Range: 0 - 100%
Display Resolution	±0.5°C
Setpoint Range	5°C–35°C

Dimensions - mm [in]

*Specifications are subject to change without notice.



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