

T1700 Series Room Thermostats

Features

- Attractive contemporary styling
- High quality bi-metal sensor for close temperature differential
- Concealed cover mounting screw to discourage tampering
- Simple on-site set point recalibration
- All slide switches for ease of operation
- Easy to wire to numbered terminals
- Optional set point limit stops available to conserve energy

Ordering

To order, specify complete product model number.

General

The T1700 Series room thermostats are designed for line voltage or low voltage control of valves, relays and fan motors in fan coil units for commercial, industrial and residential installations.

While the T1710 Series is designed to be used with motor-driven or equivalent zone valves, the T1730 Series is designed for valves which require heavy electric currents.

Mounting

The T1700 Series thermostats can be surface mounted or secured to a standard European 75x75x35 mm electrical box. See Fig. 2: Mounting Details. Mounting screws are included.



Specifications

Model Number	See Figure 6: T1700 Series Model Number Selection Guide
Nominal Operating Differential	Approximately 1K
Range	10-30°C; accuracy ± 2 K
Sensing Element	Bi-metal
Body Material	Self-extinguishing, Molded ABS
Finish	Off White Color
Electrical Ratings	Thermostat Up to 250 V 50/60 Hz; See Figure 1: Thermostat Electric Current Ratings
	Switches 6 A Resistive, 2 A Inductive, Up to 250 V 50/60 Hz
Ambient/Storage Temperature Limits	0 to 50°C / -30 to 60°C
Wire Connections	Screw-down Connectors, Wire Size 1 mm ² or 18 AWG Solid Copper Recommended
Accessories	See Figure 3: Accessories
Agency Approval	CE Mark Compliant
Shipping Weight	0.16 kg (0.35 lb)
Dimensions	See Figure 4: Dimensions in mm

The performance specifications above are nominal and subject to tolerances and application variables of generally acceptable industry standards. The Manufacturer shall not be liable for damages resulting from misapplication or misuse of its products.

Figure 1: Thermostat Electric Current Ratings

		T1710 Series for Motor-driven Valves		T1730 Series for Heavy Current Valves	
Voltage (50/60 Hz)	Application	Resistive	Inductive	Resistive	Inductive
250 V	Cooling	6 A	1 A	6 A	1 A
	Heating	30 mA	30 mA	6 A	1.5 A
220 V	Cooling	6 A	1 A	6 A	1 A
	Heating	40 mA	40 mA	6 A	1.5 A
120 V	Cooling	6 A	1 A	6 A	1 A
	Heating	75 mA	75 mA	6 A	1.5 A
24 V	Cooling	6 A	1 A	6 A	1 A
	Heating	400 mA	400 mA	6 A	1.5 A

Figure 2: Mounting Details

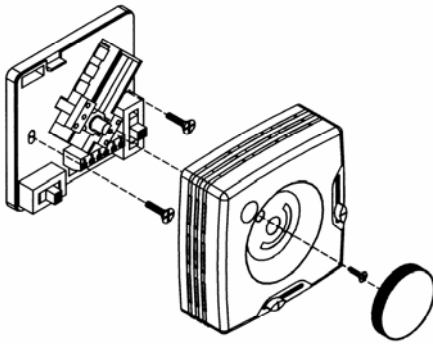


Figure 3: Accessories

Description	Part No.
Set Point Limit Stop Pins (2)	PIN1700
°C Set Point Dial, 10-30	SPD1700C
°F Set Point Dial, 50-86	SPD1700F

Field Calibration Procedure

To obtain a precise thermostat set point, measure the room temperature with a thermometer when the air conditioning unit is running. Remove the dial plate from the knob after removing the knob from the cover. Reinstall the knob and replace the dial plate with the nearest set point value corresponding to the measured temperature pointing to the index.

Figure 4: Dimensions in mm

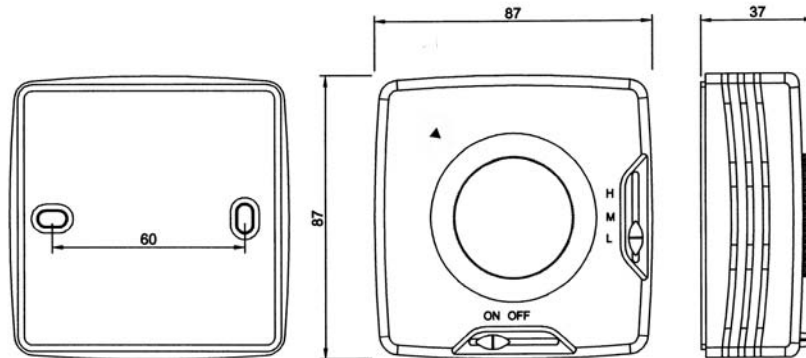
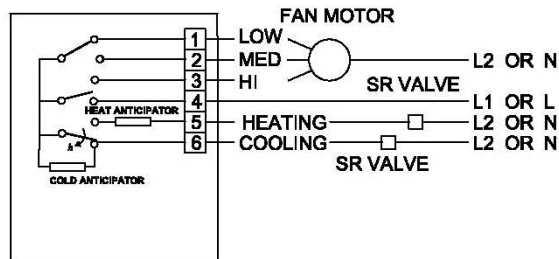
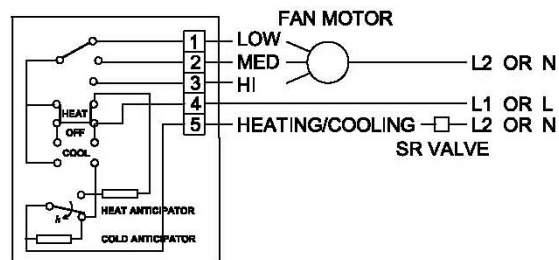


Figure 5: Typical Application Wiring Diagrams

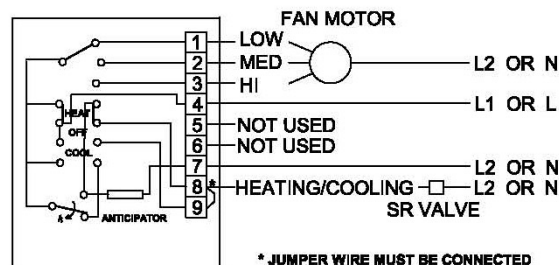
**T1711x
HEATING ONLY OR COOLING ONLY,
2-PIPE SYSTEM**



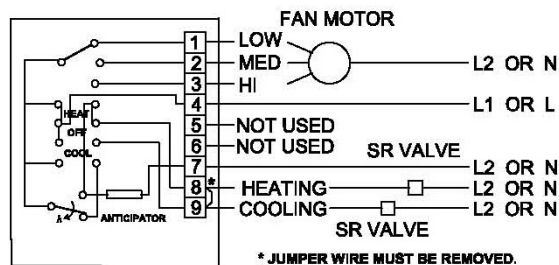
**T1712x
HEATING/COOLING 2-PIPE SYSTEM**



**T1733x
HEATING/COOLING 2-PIPE SYSTEM**



**T1733x
HEATING/COOLING 4-PIPE SYSTEM**



SR VALVE = SPRING RETURN VALVE
h = RISE IN TEMPERATURE

Figure 6: T1700 Series Model Number Selection Guide

<i>T1700 Series</i>	<i>Table 1</i>	<i>Table 2</i>	<i>Table 3</i>	<i>Hyphenated</i>	<i>Table 4</i>
T17	x	x	x	—	xxx

Thermostat Model Number Designations

Table 1 - Type	Table 3 - Voltage	Table 4 - Options
1 = Fan coil with motor-driven zone valves 3 = Fan coil with heavy current zone valves	A = 24 V 50/60 Hz B = 110/120 V 50/60 Hz U = 220/240 V 50/60 Hz	Omitted when not used NL = No logo F = with Fahrenheit temperature scale

Table 2 - Applications				
Model number		T1711x	T1712x	T1733x
Application	Ventilation	√	√	√
	2-pipe system	√	√	√
	4-pipe system			√
Control Capability	Cool only or heat only	√		
	Cool/heat	√	√	√
	Changeover (auto or manual)	a	m	m
	Fan control (auto or cont.)	cont.	cont.	cont.
	3-speed fan control (Hi-Med-Low)	√	√	√
	On-Off system switch (On-Off)	√		
	Cool-Off-Heat system switch (Cool-Off-Heat)		√	√
	Valve control	√	√	√

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