

Dual Set Thermostat for FCU/DX systems

PS- DT-01-FW/ PS-DT-01-FD/PS-DT-02-FD



Dual-set thermostat models PS-DT-01/02 are meant for controlling temperature in Hotel guest rooms that uses chilled water or the DX type air conditioner using compressor. This means that this product could be used for cooling guest room application in hotels either by using chilled water (FCU and three-way mixing valve with fan) or by normal air conditioner using compressor (up to 2 tons). It is provided with setting modes of Cool, Dry, Fan, Heat. It allows temperature setting between 16 to 30° C (62 to 86°F), for the guests and 22 to 30°C (72 to 86°F) for the hotel engineering staff, to operate in energy save mode, when Key tag is removed. The gadget could be operated either by using a control box of two- module size or by using IR remote.

The gadget, provided with **energy save** mode, would reduce the operating cost of guest rooms by saving energy, without compromising comfort. Switching over to energy save mode happens, automatically, once guest leaves the room by removing the Key tag of the ESU. The fan will be switched over to low speed and would maintain a positive air pressure in the room. We have three models in this category- **PS-DT-01-FW (FCU for water)**, **PS-DT-01-FD** (cool only with compressor), **PS-DT-02-FD** (heat and cool function with compressor).

1. Operation

As said earlier, this gadget keeps the guest ON-rooms, as per the set temperature, by operating three way valve (in case of chilled water FCU) or by switching. OFF the air conditioner (that uses compressor). Required Gas equalization delay is provided for the DX model.

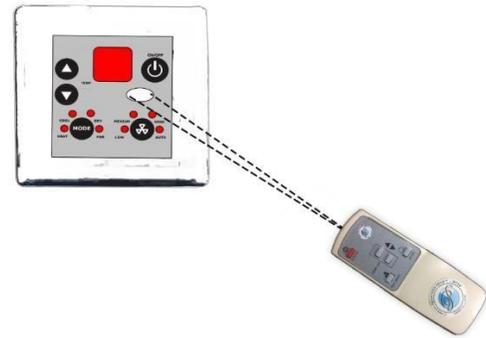


Fig1: Dual Thermostat

2. Product Highlights

- Could operate as Three/two way ON / OFF valve to optimize the flow of water or the DX type air conditioners up to two tons.
- Fan speed selection of Low / Medium / High/Auto.
- 16 to 30°C (62 to 86 °F) temperature selection for the guests and 22 to 30°C (72 to 86 °F) for the engineering staff, to save operational cost, on removing the Key tag switch of the ESU.
- Operation either from the control box (Two module size) or using Cordless operation using blind IR remote.
- Two models to select from - cool only and heat & cool.
- Provision to display temperature either by blanking or in continuous modes.

3. Applications

- Hotel guest rooms
- Student hostels
- Old age homes

4. Product Selection Chart

Model no.	Temperature Selection	Modes				Energy Saving Function	Safety	
		Heat	Cold	Fan	Dry		Fire	Door Open
PS-DT-01-FW	✓	✗	✓	✓	✓	✓	✓	✓
PS-DT-01-FD	✓	✗	✓	✓	✓	✓	✓	✓
PS-DT-02-FD	✓	✓	✓	✓	✓	✓	✓	✓

Fig 4.1 Product selection chart

Note: ✓ - Available
✗ - Not Available

5. Electrical Connection Diagram

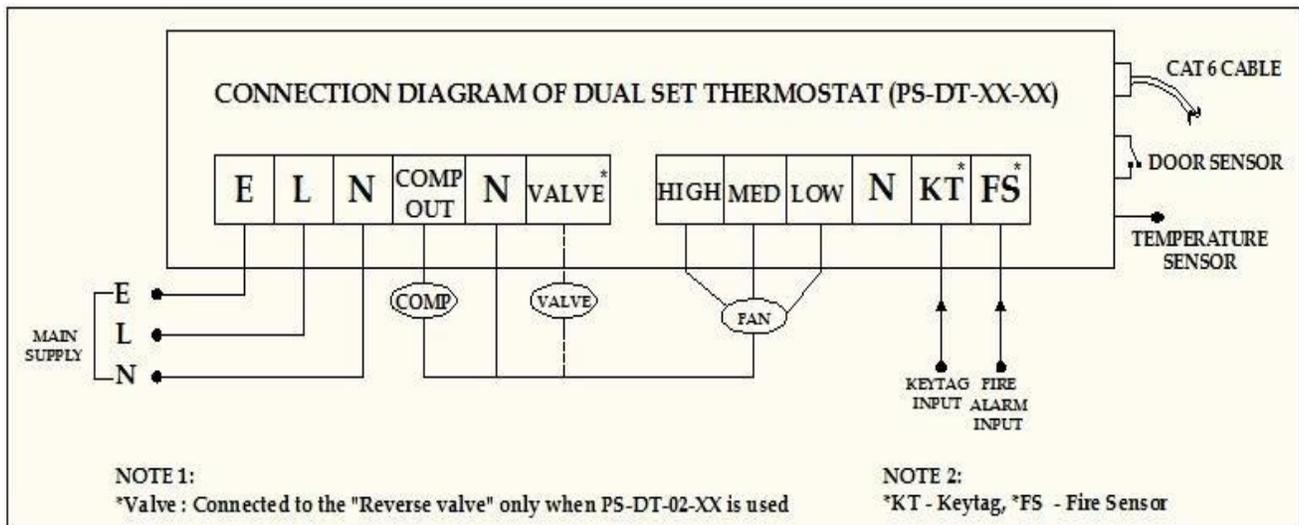


Fig 5.1 Electrical connection diagram

6. Electrical Specification

Input Voltage (V AC)			Frequency (Hz)			Power consumption (VA)	Fan relay rating	ON/OFF valve relay rating
Min.	Type	Max.	Min.	Type	Max.		Steady state	Steady state
90	220	270	45	50	55	1.2	5A, 250VAC	5A, 250VAC

Fig 6.1 Electrical specifications table

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