

Temperature, Humidity & Co2 controller

PS-BX-XXX-XX



The model PS-BX-XXX-XX series of electronic controllers is designed for monitoring and controlling environmental parameters such as temperature, humidity & carbon dioxide. Parameters can be set within the following ranges: temperature from 16°C to 30°C, Humidity between 10% and 99% RH, and CO₂ levels from 500 to 5000 ppm. The controller is equipped with a carefully calibrated sensor module capable of measuring parameter values from long distances—up to 1000 meters—allowing remote monitoring and control of the conditioned area. Relay outputs are available for two compressors, a blower fan, a heater circuit, a humidifier, and a fresh air damper. Precision sensors and monitoring displays make these controllers suitable for various applications such as smart farming, server rooms, laboratories, and dust-free

environments. Our monitoring models feature digital displays, battery backup, and alarm generation when set parameters are exceeded. A suitable model, with or without a control panel, can be identified by referring to the selection chart provided in Fig 4.1 Great care has been taken in the manufacturing of this gadget, incorporating reliability factors such as protection against EMC/EMI and other electrical noise, proper sensor calibration, and sound workmanship

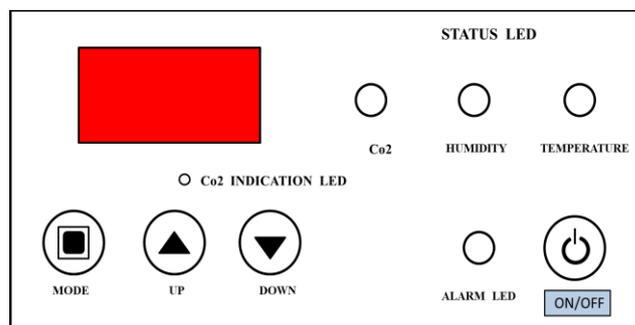


Fig .1 Temperature, Humidity & Co2 controller

1. Product Highlights

- Supports operation of two compressors, a heater bank, humidifier, and damper with loading/unloading algorithm.
- Controls temperature between 16°C and 30°C, humidity between 10% and 99% RH, and CO₂ levels from 500 to 5000 ppm.
- Displays temperature, humidity, CO₂ levels, system operational status, errors, etc.
- Allows selection of compressor duty cycle time.
- Provides operational protections, including blower error detection with compressor interlock

2. Application

- Computer server rooms
- Environmentally controlled Agriculture

3. Electrical specifications

Input Voltage (V AC)			Frequency (Hz)			Power consumption (W)	Fan, Compressor, heater, humidity & Damper relay rating (Amps)	mechanical dimension (mm)		
Min	Typ	Max	Min	Typ	Max	Max	Steady State	L	B	H
85	220	275	45	50	55	3	7A, 250V AC	255	130	85

Fig 3.1 Electrical specifications table

4. Model Selection

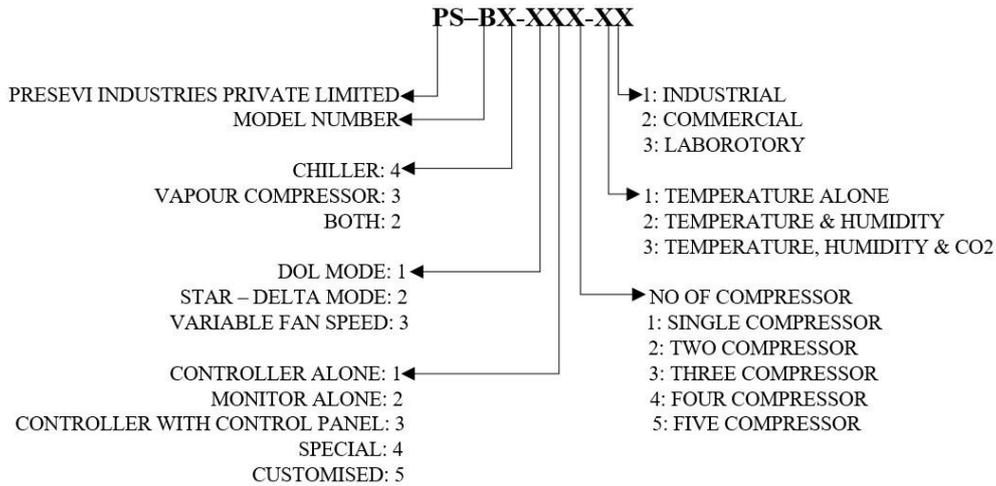


Fig 4.1 Model Selection Chart

Example to select a timer model

- PS-B2-132-33- Both chiller and vapour compressor, DOL mode, Controller with Control panel, 2 Compressor, Temperature, Humidity & Co2, Laboratory.
- PS-B3-113-21- Vapour compressor, DOL mode, Controller Alone, 2 Compressor, Temperature & Humidity, Industrial.

5. Electrical Connection Diagram

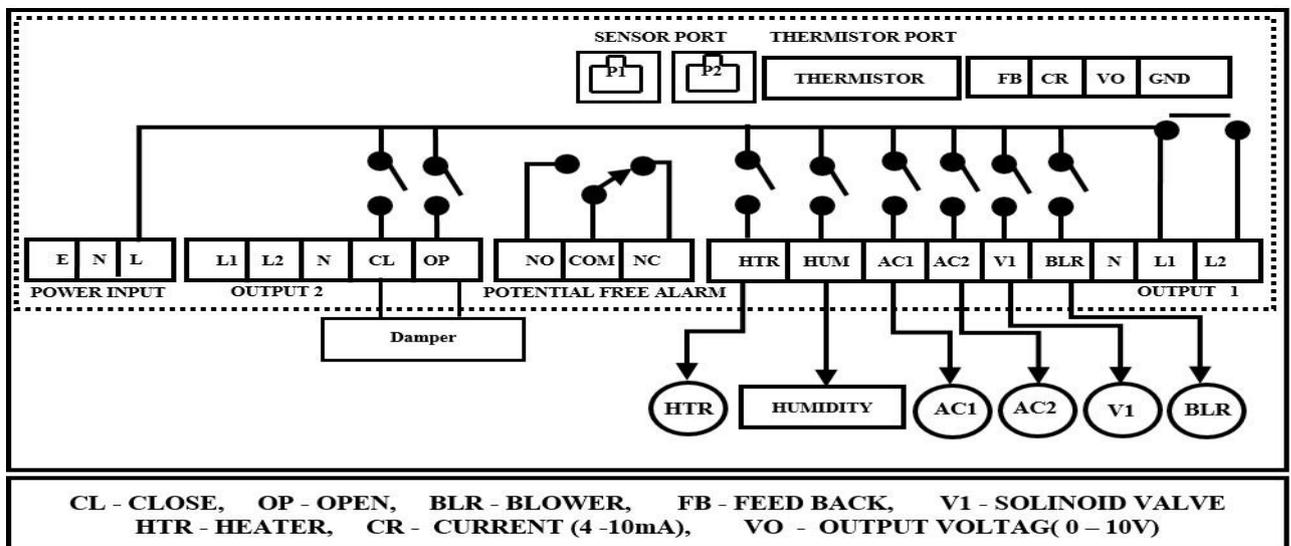


Fig 5.1 Connection Diagram of the controller

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