HaiLin Controls

HL2003 Series Thermostats

General

The HL2003 series thermostats are stand-alone microprocessor based thermostats with LCD display. The thermostats are designed to on/off control the fans, valves, dampers or electric heaters in fan coil units and heating applications.

Models are available for heating/cooling/ventilating control of 2-pipe or 4-pipe fan coil units.

The fan speed can be manually controlled by the fan speed control pushbutton. It is wired to run high/ medium/low speed continuously or to automatically change the fan speed.

Features

- Attractive modern styling makes this thermostat ideal for locating in the occupied space
- Digital LCD display room temperature and set point
- Adjustable heating/cooling/ventilating mode control
- Adjustable manual 3-speed or automatic fan speed control and on/off control output for valve
- Infrared remote control available(optional)

Main Functions

- Mode: Cool, Heat and Vent.
- Room Temperature Setting
- Detect and Display Room Temperature
- Low Temperature Protection



- Backlight function available(optional)
- Thermostat mounted directly onto a wall or standard junction box
- Model available for 24,110, 220Vac power input also
- Reliable DC power supply by transformer
- Reliable output by relays
- Backlight function available(optional)
- Manual/Auto Fan Speed Changeover
- Remote Control (Optional)

	Control Mode			Fan 3-speed		Application					Control Capability		Sub-feature		
Model	Heat	Cool	Vent.	Manual	Auto	Damper	2-Pipe	4-Pipe	2-wire	3-wire	Cycling	Auto	-L	-R	
							fan coil	fan coil	Motorized Valve	Motorized Valve	Fan	Changeover	Backlit	IR	
HL2003Y	\checkmark	\vee				\sim									
HL2003DA	\mathbf{V}	\mathbf{V}	\mathbf{V}	\sim			\sim		\checkmark				Optional functions		
HL2003DA2	\checkmark			\sim	\sim		\sim			\checkmark					
HL2003DB	\checkmark	\checkmark	\checkmark	\checkmark					\checkmark		\sim				
HL2003DB2	\checkmark	\checkmark		\checkmark	\checkmark		\vee			\checkmark	\sim				
HL2003FCV2	\vee	\vee	\vee	\sim	\vee			\checkmark	\checkmark						
HL2003AFCV2	\mathbf{V}	\mathbf{V}	\mathbf{V}	\sim	$\overline{\mathbf{V}}$			\sim	\checkmark			\sim			

Model Definitions



HL2003 Series Thermostats

Specifications

Power Supply: 220Vac(or any other volt.) ± 10%, 50/60Hz

Setpoint Range: $5 \sim 35^{\circ}C$

Setting Unit: 1°C/step

Accuracy: ± 1℃

Display: 53 × 36mm LCD display

System Adjust: 5 push-button for Power, Mode, Fan speed, Up and Down

Mode Setting: Heating, Cooling and Ventilating

Fan Speed Adjust: High, Medium, Low and Automatic fan speed control

Cycling Fan Control: Fan cycled running with thermostat

Control Performance: ON/OFF control

Differential: 1℃

Thermostat Output: SPST relay for 2-pipe configuration 2 SPST relay for 4-pipe configuration

Electrical Rating: 0.8A run, 5A inrush Temperature Sensor: NTC Thermistor 100K

Enclosure: Fire retardant PC ABS

Minimum Operational Life: Thermostat contacts: 100,000 cycles

Remote Controller(optional): Infrared Remote Control

Backlight Function(optional) : Blue light

Dimensions: $86 \times 86 \times 13$ mm (W × H × D)

Hole Pitch: 60 mm

Environmental requirements: Operating temperature range $0 \sim 40^{\circ}$ C, Humidity range 5 ~ 95 %RH (non-condensing)

Wiring:

Screw-in terminals, each terminal capable of accepting 16 AWG, 18 AWG, 1.25mm² or 0.75mm² wires

Embeded Mounting:

