HL2008 Series Thermostats

General

The HL2008 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, air-conditioners 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, while with other models there is a choice of running the fan continuously, or cycling it with the thermostat.

Features

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

- Backlight function available(optional)
- 5/2 or 7 days 4 periods Programmable (optional)
- Thermostat mounted directly onto a wall or standard junction box
- Model available for 24,110, 220 Vac power input also
- Reliable DC power supply by transformer
- Reliable output by relays

Main Functions

- Mode: Cool, Heat and Vent.
- Room Temperature Setting
- Detect and Display Room Temp
- Manual/Auto Fan Speed
- Low Temperature Protection

- Clock（Optional）
- Sleep（Optional）
- Infrared Remote Control (Optional)
- Blue Backlight（Optional）
- 5/2 or 7 days 4 periods Programmable (Optional）

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Model Definitions

Model	Control Mode			Fan 3-speed		Application					Control Capability		Sub-feature		
	Heat	Cool	Vent.	Manual	Auto	Damper	2-Pipe fan coil	4-Pipe fan coil	2-wire Motorized Valve	3-wire Motorized Valve	Cycling Fan	Auto Changeover	-T Prog.	-L Backlit	-R IR
HL2008Y	√	√				√									
HL2008DA	√	√	√	√	√		√		√						
HL2008DA2	√	√	√	√	√		√			√					
HL2008DB	√	√	√	√	√		√		√		√				
HL2008DB2	√	√	√	√	√		√			√	√				
HL2008FCV2	√	√	√	√	√			√	√						
HL2008AFCV2	√	√	√	√	√			√	√			√			

Sub-feature column: Optional functions

Specifications

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

Setpoint Range:
5 ~ 35℃

Setting Unit:
1℃/step

Accuracy:
± 1 ℃

Display:
65 × 48mm LCD display

System Adjust:
6 push-button for Power, Mode, Clock, 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℃

Electrical Rating:
0.8A run, 5A inrush

Enclosure:
Fire retardant PC ABS

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

Temperature Sensor:
NTC Thermistor 100K

Minimum Operational Life:
Thermostat contacts: 100,000 cycles

Remote Controller(optional):
Infrared Remote Control

Backlight Function(optional) :
6 seconds, blue light

Dimensions:
86 × 86 × 13mm (W × H × D)

Hole Pitch:
60 mm

Environmental requirements:
Operating temperature range 0 ~ 40℃, Humidity range 5 ~ 95 %RH (non-condensing)

Wiring:
Screw-in terminals, each terminal capable of accepting
16 AWG, 18 AWG, 1.25mm^2 or 0.75mm^2 wires

Embeded Mounting: