HL2008 Digital Thermostat

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
- Thermostat mounted directly onto a wall or standard junction box
- Model available for 24Vac, 85-260Vac, power input also
- Reliable DC power supply by transformer
- Reliable output by relays

Functions

- Cool, Heat and Vent.
- Room Temperature Setting
- Detect and Display Room Temperature
- 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)

Part No.

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 Change over	-N Elec. Box	-L Back lit	-R IR
HL2008Y	√	√				√							48×48×25mm (Blank is normal size)	Optional functions	
HL2008DA	√	√	√	√	√		√		√						
HL2008DA2	√	√	√	√	√		√			√					
HL2008DB	√	√	√	√	√		√		√			√			
HL2008DB2	√	√	√	√	√		√				√	√			
HL2008FCV2	√	√	√	√	√			√	√						
HL2008AFCV2	√	√	√	√	√			√	√			√			

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Specifications

Power Supply:

24Vac,85-260Vac,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℃

Switch current rating:

2A 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)

Mounting:

Embeded mounting, Electrical box size:

62×46×24.5mm(Normal);

48×48×25mm(European standard)

Wiring:

Screw-in terminals, each terminal capable of accepting

16 AWG, 18 AWG, 1.25mm2 or

0.75mm2 wires

Embeded Mounting: