

HL108 Series Thermostats

General

The HL108 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 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
- Infrared remote control available(optional)
- Backlight function available(optional)
- Thermostat mounted directly onto a wall or standard junction box
- Model available for 110, 220 VAC power input also
- Reliable DC power supply by transformer
- Reliable output by relays

Main Functions

Cool/Heat/Ventilation Change Control	Manual/Auto Fan Speed Changeover
Room Temperature Setting	Backlight function available(optional)
Detect and Display Room Temperature	Remote Control (Optional)
Low Temperature Protection	

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	Backlig	IR
HL108Y	✓	✓				✓							Optional function	
HL108DA	✓	✓	✓	✓	✓		✓		✓					
HL108DA2	✓	✓	✓	✓	✓		✓			✓				
HL108DB	✓	✓	✓	✓	✓		✓		✓		✓			
HL108DB2	✓	✓	✓	✓	✓		✓			✓	✓			
HL108FCV2	✓	✓	✓	✓	✓			✓	✓					
HL108AFCV2	✓	✓	✓	✓	✓			✓	✓			✓		

Specifications

Supply Voltage:

220V(or any other volt.) $\pm 10\%$, 50/60Hz

Setpoint Range:

5~35℃

Setting Unit:

0.5 ℃ / step

Accuracy:

± 0.5 ℃

Display:

65×48mm 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 models

2 SPST relay for 4-pipe models

Electrical Rating:

2A run, **12A 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:

86×86×13mm (W×H×D)

Hole Pitch:

60 mm

Environmental requirements:

Operating temperature range 0 ~ 40 ℃,

Humidity range 5 ~ 95 %RH (non-condensing)

Mounting:

Mounts directly onto wall, standard 86 × 86 mm junction box (hole pitch 60 mm)

Wiring:

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