

HL108 Digital Thermostat

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 push button. 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 24Vac, 85-260Vac, power input
- Reliable DC power supply by transformer
- Reliable output by relays

Part No.



Functions

- Mode: Cool, Heat and Vent.
- Room Temperature Setting
- Detect and Display Room Temperature
- Low Temperature Protection
- Manual/Auto Fan Speed Changeover
- Backlight Function Available (optional)
- Remote Control (Optional)

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 Backlit	-R IR	
HL108Y	✓	✓				✓							48×48×25mm (Blank is normal size)	Optional functions		
HL108DA	✓	✓	✓	✓	✓		✓		✓							
HL108DA2	✓	✓	✓	✓	✓		✓			✓						
HL108DB	✓	✓	✓	✓	✓		✓		✓		✓					
HL108DB2	✓	✓	✓	✓	✓		✓			✓	✓					
HL108FCV2	✓	✓	✓	✓	✓			✓	✓							
HL108AFCV2	✓	✓	✓	✓	✓			✓	✓		✓					

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Specifications

Power Supply:

24Vac, 85-260Vac, 50/60Hz

Setpoint Range:

5 ~ 35°C

Setting Unit:

0.5°C / step

Accuracy:

±0.5°C

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°C

Thermostat Output:

SPST relay for 2-pipe configuration

2 SPST relay for 4-pipe configuration

Switch current rating:

Resistive: 2A / 4A, Inductive: 1A / 2A

Temperature Sensor:

NTC Thermistor 100K

Enclosure:

Fire retardant PC ABS

Minimum Operational Life:

Thermostat contacts: 100,000 cycles

Remote Controller(option al):

Infrared Remote Control

Backlight Function(option al) :

Blue light

Dimensions:

86×86×13mm (W×H×D)

Hole Pitch:

60 mm

Environmental requirements:

Operating temperature range 0 ~ 40°C,

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

Mounting:

Embedded mounting, Electrical box size:

62×46×24.5mm(Normal);

48×48×25mm(European standard)

Wiring:

Screw-in terminals, each terminal capable of accepting

16AW G18 AWG, 1.25mm² or 0.75mm² wires

Embedded Mounting:

