



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 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 Temperature
- Low Temperature Protection
- Manual/Auto Fan Speed Changeover
- Backlight function available(optional)
- Remote Control (Optional)

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	-L Backlit	-R IR
HL108Y	✓	✓				✓							Optional functions	
HL108DA	✓	✓	✓	✓	✓		✓		✓					
HL108DA2	✓	✓	✓	✓	✓		✓			✓				
HL108DB	✓	✓	✓	✓	✓		✓		✓		✓			
HL108DB2	✓	✓	✓	✓	✓		✓			✓	✓			
HL108FCV2	✓	✓	✓	✓	✓			✓	✓					
HL108AFCV2	✓	✓	✓	✓	✓			✓	✓			✓		

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Specifications

Power Supply: 220Vac(or any other volt.) ± 10%, 50/60Hz	Temperature Sensor: NTC Thermistor 100K
Setpoint Range: 5 ~ 35°C	Enclosure: Fire retardant PC ABS
Setting Unit: 0.5°C / step	Minimum Operational Life: Thermostat contacts: 100,000 cycles
Accuracy: ± 0.5°C	Remote Controller(optional): Infrared Remote Control
Display: 65 × 48mm LCD display	Backlight Function(optional) : Blue light
System Adjust: 5 push-button for Power, Mode, Fan speed, Up and Down	Dimensions: 86 × 86 × 13mm (W × H × D)
Mode Setting: Heating, Cooling and Ventilating	Hole Pitch: 60 mm
Fan Speed Adjust: High, Medium, Low and Automatic fan speed control	Environmental requirements: Operating temperature range 0 ~ 40°C, Humidity range 5 ~ 95%RH (non-condensing)
Cycling Fan Control: Fan cycled running with thermostat	Wiring: Screw-in terminals, each terminal capable of accepting 16 AWG, 18 AWG, 1.25mm ² or 0.75mm ² wires
Control Performance: ON/OFF control	Embedded Mounting:
Differential: 1°C	
Thermostat Output: SPST relay for 2-pipe configuration 2 SPST relay for 4-pipe configuration	
Electrical Rating: 0.8A run,5A inrush	

