Thermostats and humidistats
Thermostat

Digital thermostat type HL108

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

Specifications

- Attractive modern styling makes this them 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)
- Model available for 24 Vac, 85-260 Vac, power input
- Reliable DC power supply by transformer
- Reliable output by relays

Mounting

- Thermostat mounted directly onto a wall or standard junction box

Function

- Mode: Cooling, Heating and Ventilation
- Room temperature setting
- Detect and display room temperature
- Low temperature protection

Dimensions

- (W x H x D) mm : 75 x 75 x 25,5

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Models														
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 Electric box	L Back-lit	R IR
HL108DBE	✓	✓	✓	✓	✓	✗	✓	✗	✓	✗	✓	✗	48x48x48mm	optional function	
HL108FCV2	✓	✓	✓	✓	✓	✗	✗	✓	✓	✗	✗	✗			

Technical data	
Power voltage	24Vac, 85-260Vac, 230VacÂ±10%, 50/60 Hz
Setpoint range	5 ~ 35Â°C
Setting unit	0.5Â°C / step
Accuracy	Â±0.5Â°C
Display	65 x 48 LCD
System adjust	5 push-buttons for Power, Mode, Fan speed, Up and Down
Mode setting	Heating, Cooling and Ventilating
Fan speed selection	High, Medium, Low and Automatic fan speed control
Cycling fan control	Fan cycled running with thermostat
Control performance	ON/OFF control
Differential	1Â°C
Thermostat output	SPST relay for 2-pipe configuration 2 SPST relay for 4-pipe configuration
Switch current setting	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 (optional)	Infrared remote control
Backlight Function (optional)	blue light
Dimensions	86 x 86 x 13 mm (W x H x D)
Hole pitch	60 mm
Environmental requirements	Operating temperature range: 0 ~ 40Â°C Humidity range 5 ~ 95 % RH (non-condensing)
Mounting	Embeded mounting, Electrical box size: 62 x 46 x 24.5 mm (Normal) 48 x 48 x 25 mm (European standard)
Wiring	Screw-in terminals, each terminal capable of accepting 16 AWG, 18 AWG, 1.25 mm2 or 0.75 mm2 wires