

HL2010 Series Thermostats

General

HL2010 series thermostat adopts button-hidden fashion appearance design. The thermostats are stand-alone microprocessor based thermostats with LCD display and 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

- Luxury appearance with larger digital LCD display
- Soft rubber keypads and most of keypads are hidden under the cover
- High reliable stand-alone microprocessor increases anti-jamming ability
- Reliable DC power supply by transformer
- Reliable output by relays
- Standard 86 × 86mm junction box installation with only 13mm thickness
- Model available for 24,110, 220Vac power input also
- 5+2 or 7 days 4 periods Programmable
- Infrared remote control available
- Backlight function available

Main Functions

- Mode: Cool, Heat, Auto and Vent.
- 3-speed manual/automatic fan control
- °F/°C selectable indicator
- 12/24 hours clock
- Selectable deadband setting
- Infrared remote control available optional
- 5+2 or 7 days 4 periods Programmable optional
- Sensor trouble indicator
- Retain user setting for a long time after power failed(optional)
- Startup “Low-temperature protection” function when turned off(optional)
- Lock keypad to avoid any mistake operations (optional)
- Sleep function provides gradually automatic temperature setting changes(optional)

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Model Definitions

Model	Control Mode			Fan 3-speed		Application			Control Capability		Sub-feature		
	Heat	Cool	Vent.	Manual	Auto	2-Pipe fan coil	4-Pipe fan coil	2-wire Motorized Valve	Cycling Fan	Auto Changeover	-T Prog.	-L Backlit	-R IR
HL2010DA	✓	✓	✓	✓	✓	✓		✓			Optional functions		
HL2010DB	✓	✓	✓	✓	✓	✓		✓	✓				
HL2010FCV2	✓	✓	✓	✓	✓		✓	✓					
HL2010AFCV2	✓	✓	✓	✓	✓		✓	✓		✓			

Specifications

Power Supply:
220Vac(or any other volt.) ± 10%, 50/60Hz

Setpoint Range:
5~35°C

Setting Unit:
0.5°C/ step

Accuracy:
± 0.5°C

Display:
63 × 45mm LCD display

System Adjust:
6 soft buttons 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°C

Thermostat Output:
SPST relay for 2-pipe configuration
2 SPST relay for 4-pipe configuration

Electrical Rating:
0.8A run, 5A 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°C,
Humidity range 5 ~ 95 %RH (non-condensing)

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

Embedded Mounting:

