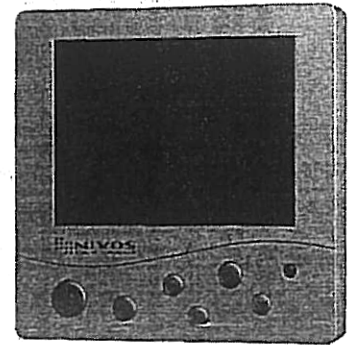


## NVH2010 Series Thermostat Manual

NVH2010 Series thermostats are available for individual room temperature control in residential, industrial and business premises. Suitable for 4-pipe configuration. For continuous temperature control of air-conditioning system (fan-coil) with valve and 3-speed fan. Output for heating, cooling and ventilating by the key of "M".

Housing 86×86mm of flame-retardant ABS (V0 class) shell. Temperature sensor with NTC, displaying status, speed of fan, room-temperature, set-temperature with LCD. The keys on the panel are: on/off (⏻), mode exchange (M), timer (⊕), fan speed (⚙) and temperature adjust (▲ ▼).



### FUNCTION:

- ★ Setting room temperature
- ★ Displaying room temperature
- ★ Changing fan speed manually or automatically
- ★ Blue backlight (-L)
- ★ Infrared Remote Control(-R)
- ★ Clock(-T)
- ★ Sleep(Optional)

### TECHNICAL DATA:

- ★Setpoint range: 5~35℃
- ★Operating different: ± 1℃
- ★Switch current rating: 2(1)A
- ★Sensing element: NTC
- ★Display: LCD
- ★Power supply: AC220V ± 10%,50/60Hz
- ★Dimensions: 86 × 86 × 13 mm

### Part Number:

NVH2010Y: Only control electric damper to open or close.

NVH2010: Control Motorized Valve and 3-speed fan, when the temperature reaches the set-point, it will close the Motorized Valve with the fan still running.

NVH2010DB: Control Motorized Valve and 3-speed fan, when the temperature reaches the set-point, it will close the Motorized Valve and Fan both.

NVH2010FCV2-DB: Control 4 pipe fan coil units, Control two Motorized Valves and 3-speed fan, when the temperature reaches the set-point, it will close the Motorized Valve and Fan both.

### OPERATION:

- ☞ On/off: press "⏻" to turn on, press "⏻" again to turn off.
- ☞ Setting temperature: press "▼" to reduce temperature, press "▲" to raise temperature.
- ☞ COOL: press "M" till to display "❄" and flash, it will be confirmed automatically after 5 seconds.
- ☞ HEAT: press "M" till to display "☀" and flash, it will be confirmed automatically after 5 seconds.
- ☞ Ventilation: press "M" till to display "🌀" and flash, it will be confirmed automatically after 5 seconds.
- ☞ Fan speed select: press "⚙" to select "⚙(Hi)", "⚙(Med)", "⚙(Low)", "⚙(Auto)". In mode "⚙(Auto)", the fan-speed changed automatically. Auto LOW-speed When the difference between room-temperature and setting-temperature exceed 1℃, Auto MED-speed When exceed 2℃, Auto HI-speed When exceed 3℃.
- ☞ GR2010FCV2 Open/Close valve: In cool mode, When the room-temperature is higher than setting-temperature, cooling valve will be opened. Otherwise it will be closed, Heating valve is always closed. In heat mode, When the room-temperature is lower than setting-temperature, heating valve will be opened, Otherwise it will be closed, Cooling valve is always closed.

### LOW TEMPERATURE PROTECTION (FROST PROTECTION)

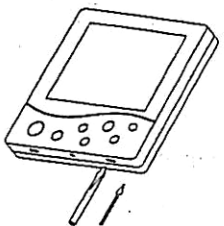
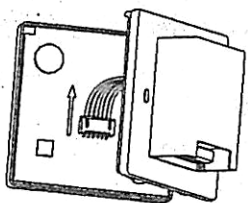
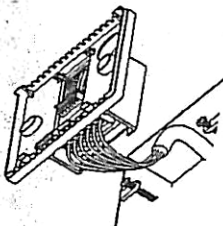
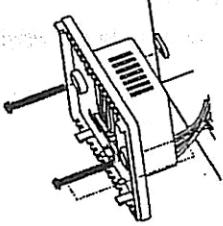

☞ To put the thermostat in to Frost Protection mode: when thermostat is turned off, press "M" and hold for 3 seconds, "00" or "01" will be shown. Press "▲" or "▼" key to adjust. "00" indicates invalid low temperature protection, "01" indicates valid low temperature protection function. The default is "00".

When the low temperature protection is valid, when the thermostat turns off and the room temperature is lower than 5℃, it will be turned on automatically and in heating mode, Fan-coil runs with high speed and opens the heating valve.

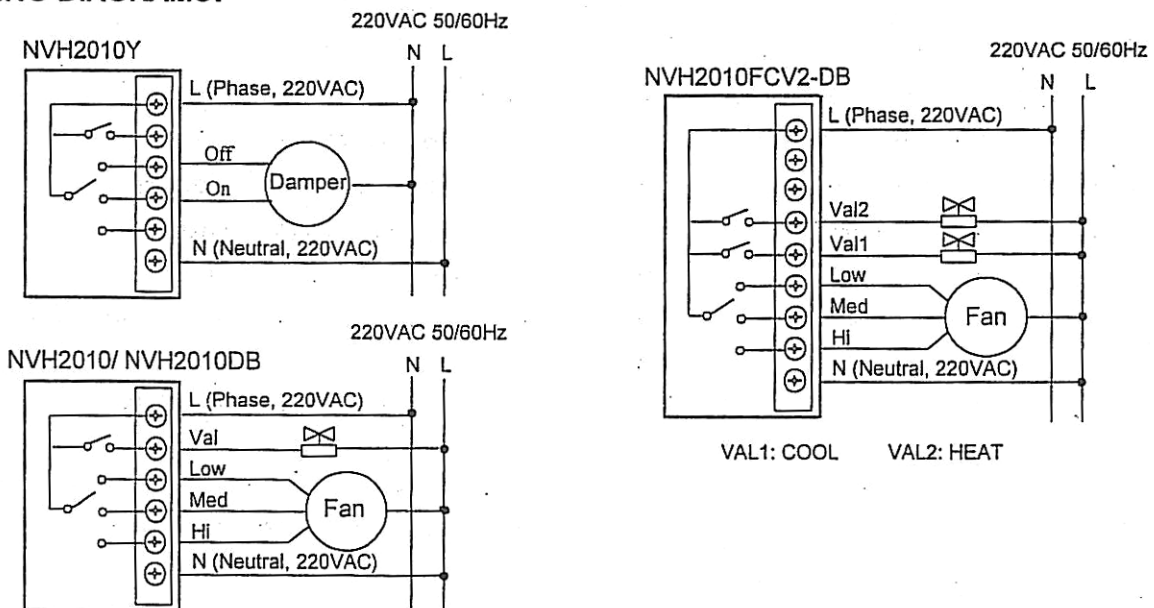
## NVH2010-TXX has functions in the following(-T):

- ☞ Sleep: press "⊖", till to display "☾" and flash, press "▲" to confirm, press "▼" to cancel.
- ☞ Clock: press "⊖", till to display "hh:mm" and "mm" flash, press "▲" or "▼" to adjust minute, press "⊖", "hh" flash, press "▲" or "▼" to adjust hour.
- ☞ Timer on: press "⊖", till to display "⊖" and "TIMER ON" and all flash, and also "mm" flash, press "▲" or "▼" to adjust minute. Press "⊖", "hh" flash, press "▲" or "▼" to adjust hour.
- ☞ Timer off: press "⊖", till to display "⊖" and "TIMER OFF" and all flash, and also "mm" flash, press "▲" or "▼" to adjust minute. Press "⊖", "hh" flash, press "▲" or "▼" to adjust hour.
- ☞ Canceling timer on: press "⊖", till to display "⊖" and "TIMER ON" and all flash, and also "mm" flash, press "▲" or "▼" to adjust minute to "00". Press "⊖", "hh" flash, press "▲" or "▼" to adjust hour to "00".
- ☞ Canceling timer off: press "⊖", till to display "⊖" and "TIMER OFF" and all flash, and also "mm" flash, press "▲" or "▼" to adjust minute to "00". Press "⊖", "hh" flash, press "▲" or "▼" to adjust hour to "00".

## MOUNTING:

				
<p>1. Open the main control panel: put the screwdriver (3.5mm) into the block 4mm along the bevel. Prize up, open the clips.</p>	<p>2. Take off the wires.</p>	<p>3. As per wiring diagram, connect it with terminals, fix by the screwdriver.</p>	<p>4. Put the connected thermostat onto the back panel in the wall, then fix it with the two screws in the packing box.</p>	<p>5. Put the cover with 30 degree angle, then fix the up two clips.</p>
<p>6. Push the places of the two down clips, fix the cover, and finish the installation.</p>				

## WIRING DIAGRAMS:



**Note:** Be sure to connect all the wires as per the wiring diagram and keep water and mud and other fine material away so as to avoid the elements inside being spoiled!