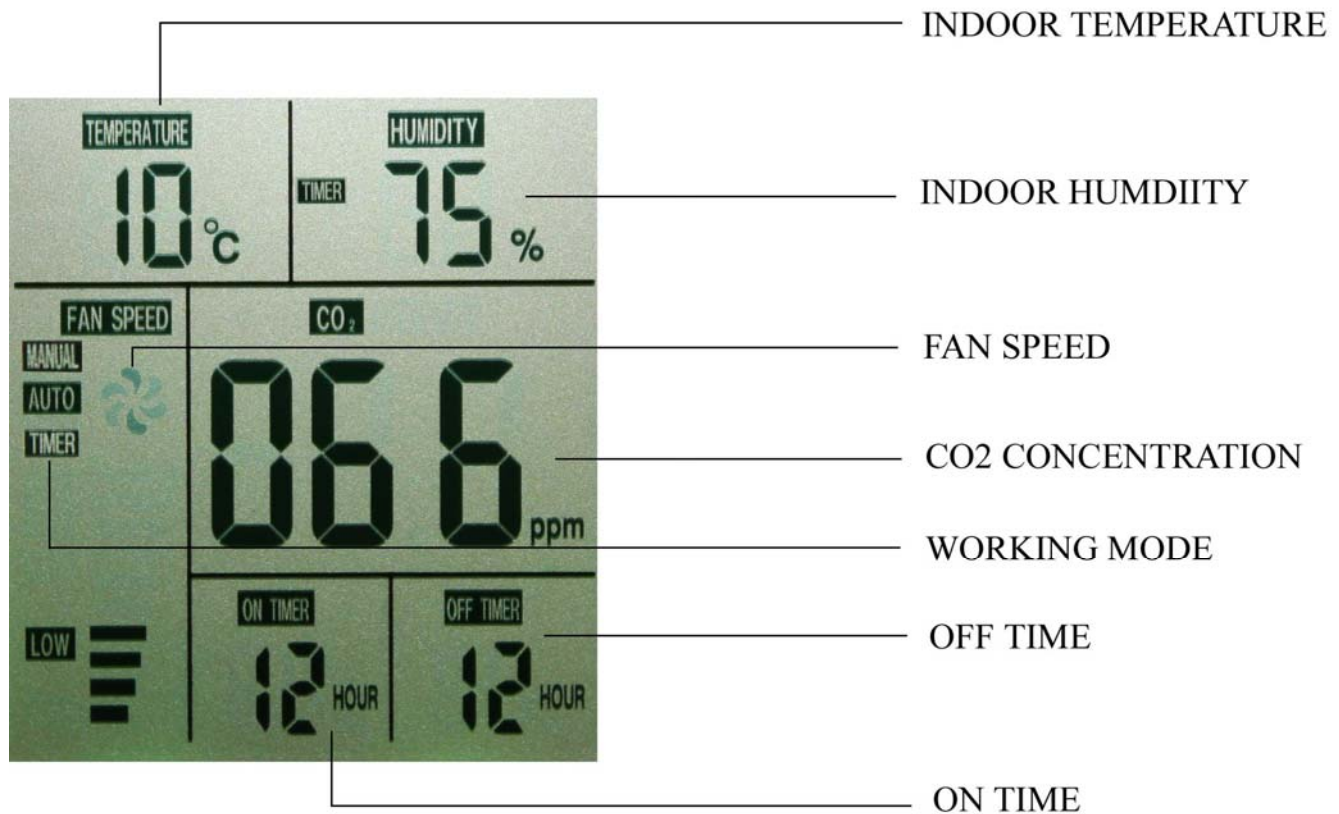


DONGHAI HRV Intelligent Controller (DCS-2H)

I. Introduction:

New Air intelligent controller (DCS-2H) can monitor real-time indoor temperature, humidity, CO2 concentration. Controller output signal can directly control the startup and speed of fan. It can be widely used in residential, commercial and industrial applications, and can effectively improve air quality, create a healthy, comfortable, energy-efficient living and working environment.



Standard EXW setting of auto mode,

CO2 auto mode

CO2 concentration from 0~500 PPM is low fan speed, from 500~799 PPM is middle fan speed, above 800 PPM is high fan speed,

Temperature auto mode,

Your setting temperature is for low fan speed, you setting temperature add 2 degree for middle fan speed, your setting temperature add 4 degree for high fan speed,,

Humidity mode,

Your setting humidity is for low fan speed, you setting humidity add 5% degree for middle fan speed, your setting humidity add 10%for high fan speed,,

II. Monitoring objects:

1. CO2 (VOC) display value,0—999 PPM,Real-time monitoring indoor CO2 concentration.
2. Indoor temperature: 0°C---- +50°C
3. Indoor humidity: 5%RH----95%RH

III. Function & Feature:

1. Real-time display indoor concentration of CO2 (VOC);
2. Display the current indoor air pollution levels;
3. Real-time display the indoor temperature;
4. Real-time display indoor humidity;
5. According to indoor temperature and CO2 concentrations, automatically adjust the fan speed;
6. Display the HRV system fan status (Stop, slow, medium and high speed) , working mode (Manual, automatic, timing) ;
7. Automatic mode: when the intelligent controller detect indoor air quality or temperature changing, the HRV system can automatically adjust the fan speed;
8. Manual mode: User can control the startup & speed of HRV fan
9. Timing mode 1: User can set cycle operation time (1 minutes—99 hours) and stop time (1 minutes—99 hours) of fan;
10. background color will change according to air quality, low air quality background become red, Middle air quality background become yellow, good air quality background become green,;

IV.Button Instruction:



press more than 2 seconds, it can switch ON/OFF background light,



press it change unit work mode between -MANUAL-AUTO- TIMER-OFF



press it increase fan speed or add setting value



press it decrease fan speed or decrease setting value





press the button until CO2 value is blinking, choose CO2 auto mode,

Note: before this step, user need to set the controller in auto mode,





press the button until temperature value is blinking s, choose temperature auto mode, the

temperature value will blink, user can reset the value by  and ,

Note: before this step, user need to set the controller in auto mode,



press the button until humidity value is blinking s, choose humidity auto mode, the humidity value

will blink, user can reset the value by  and ,

Note: before this step, user need to set the controller in auto mode,

V. Specification:

1. Rated voltage: AC220V 50/60Hz
2. Standby Power: <1.5W
3. Control power: 200W
4. Over-current protection: 5A fuse
5. Output interface: High-speed / Middle speed / low-speed fan
6. Warm-up time: ≤60 seconds

- 7. Response time: ≤ 10 seconds
- 8. Recovery time: ≤ 30 seconds
- 9. Operating temperature: -10°C --- $+50^{\circ}\text{C}$
- 10. Storage temperature: -20°C --- $+60^{\circ}\text{C}$
- 11. Operating humidity: $\leq 95\% \text{RH}$
- 12. Storage humidity: $\leq 60\% \text{RH}$
- 13. Life: ≥ 10 years

5. Controller drawing and wiring

