

# DV8000 Intelligent Central Linkage Controller

## User Manual

### 1. Overview

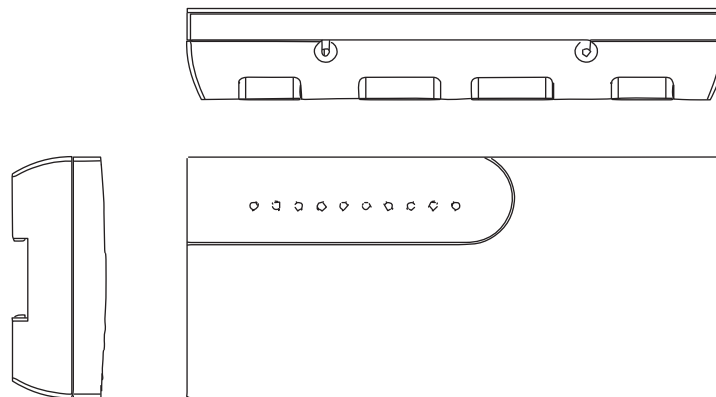
- 1.1 This equipment is used for the centralized processing of floor heating or air-conditioning thermostat signals, and transmits instructions to control the opening/closing of the floor heating electric valve, and performs zone temperature control.
- 1.2 At the same time controlling the electric valve, it can control the passive linkage of the heat pump host, the boiler and the external water pump (mixing center) or the active linkage control of the three-line one-control valve and the two-line valve;
- 1.3 It can be controlled by pulling the code to control the three-gear delay linkage control of 0~30~45~60~120 s.
- 1.4 It can support 8-channel floor heating thermostat with 220V power supply, and the wiring is safe and convenient.
- 1.5 It supports the display of the partition control indicator light, and the working status is clear and convenient.

### 2. Basic technical conditions

- 2.1 A total of 8 zone control, AC220V actuator (Special reminder! Temperature control and centralized control must be powered by the same power supply to avoid leakage current imbalance);
- 2.2 Own power consumption: the maximum power consumption is not more than 2W;
- 2.3 For thermoelectric valves with single output, the maximum current does not exceed 3A;
- 2.4 The maximum current of the passive linkage boiler does not exceed 3A;
- 2.5 The maximum current of active linkage does not exceed 3A (Warning! External active equipment with output current exceeding 3A must add a relay);
- 2.6 Linked boiler control delay: 0~30~45~60~120 seconds adjustable;
- 2.7 Linkage external water pump control delay: 0~30~45~60~120 seconds adjustable;
- 2.8 Ambient humidity: 5~95%RH without condensation.

### 3. Installation and fixed size

Size: 240X 110 X 42mm



### 4. Working principle

- 4.1 Each line works, there are indicator lights to check the working conditions of the valves and linkages in each zone;
- 4.2 When the line thermostat has signal input, the thermoelectric valve of the corresponding line is opened; when any thermostat has no signal input, the thermoelectric valve of the corresponding line is closed;
- 4.3 Boiler passive linkage: When any thermostat has a signal on a linkage loop (a loop can have one or more linkage central controllers), a passive linkage signal is given to the boiler, and the boiler is turned on. When there is no signal input from the thermostat, a passive linkage signal is given to the boiler, and the boiler is turned off;
- 4.4 External water pump (mixing center) active linkage: on a linkage loop (a loop can have one or more linkage central controllers) when any thermostat has a signal input, the external water pump (mixing center) starts, When all thermostats have no input, the external water pump (mixing center) is shut down.

## 5. LED output light indication:

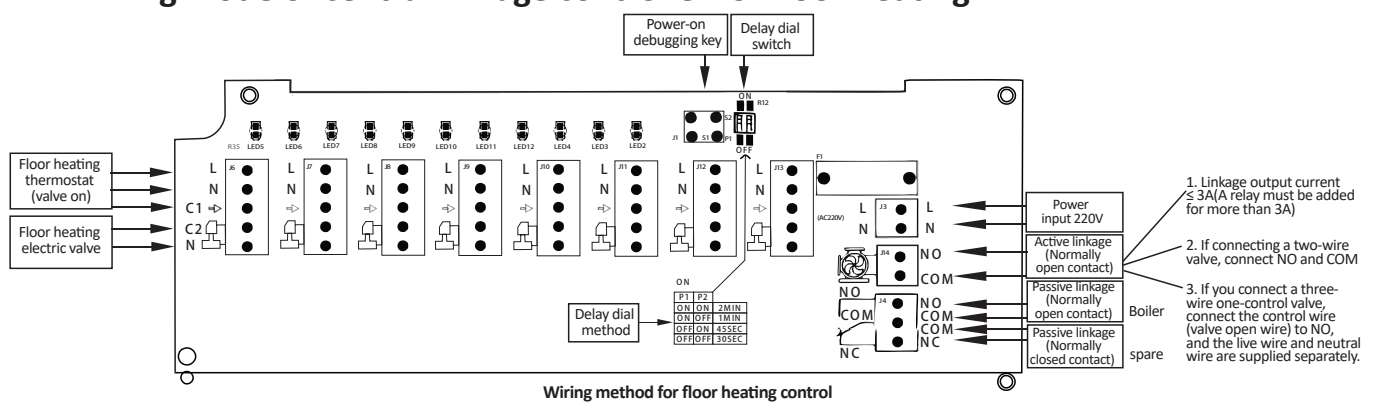
- 5.1 The constant light in the LED box indicates that there is a power input indication
- 5.2 The blinking indicator light in the LED box indicates that there is a status indication (if there is a failure, no indication or constant light)
- 5.3 The red indicator light is on, indicating that the 1-8# sub-chamber electric valve is open.
- 5.4 The red indicator lights of LED9 and 10 are on, indicating that the boiler and auxiliary circulating pump or the main valve of the system are open.

## 6. Debugging special function:

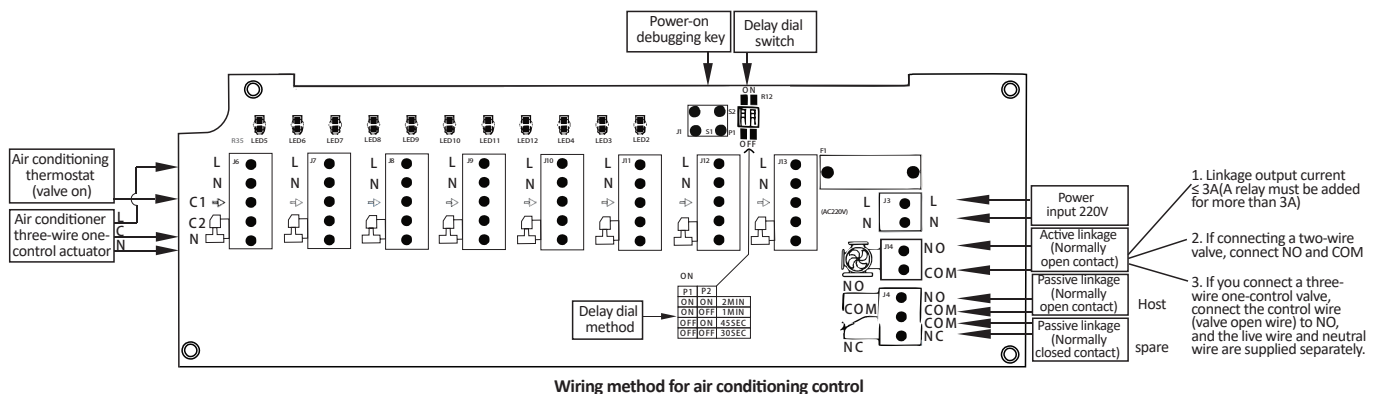
If you need to debug or check whether the main controller is working normally, you can press and hold the debug button before powering on and then power on. At this time, the time delay is invalid, and you can quickly check the functions required for debugging (such as no operation after 20 minutes Debugging function is invalid). The working time required by the delay time can be adjusted by the DIP switch, which can be adjusted according to the product indication position plan.

## 7. Wiring diagram

### 7.1 Wiring mode of central linkage controller for floor heating



### 7.2 Wiring mode of central linkage controller for air conditioner



## 8. Delayed dialing operation

| P1  | P2  | Delay time |
|-----|-----|------------|
| ON  | ON  | 120S       |
| ON  | OFF | 60S        |
| OFF | ON  | 45S        |
| OFF | OFF | 30S        |

When a thermoelectric valve is used, the normal opening time of the thermoelectric valve needs about 80-160 seconds according to the working principle of the thermoelectric valve. In order to ensure the normal working conditions of the water pump and boiler equipment, it is specially designed with a joint control 0~30~45~60~120s code delay function.

## 9. Precautions

- 9.1 Before use, please be sure to comply with the equipment technical conditions, and the interface load is strictly prohibited to exceed the technical requirements;
- 9.2 There is a strong electric power supply inside the product. Please ensure that the power supply is cut off during disassembly. Live operation is strictly prohibited to avoid the risk of electric shock!