



GYROAIR™

Instructions of Synchronized Control

Model: SC-800/1000



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目 录

1. 产品介绍	2
2. 工作原理	2
3. 面板说明	5
4. 设备接线	7
4.1 380V三相五芯线接线	7
4.2 220V三相四芯线接线	9
4.3 220V单相三芯线接线	9
5. 配对和设置	11
5.1 联动器与主控器配对	11
5.2 联动器电流门限设置	13
6. 更换熔断器	15

Contents

1. Introduction	4
2. Working Principle	4
3. Panel Description	6
4. Wiring	8
4.1 380V—3 phase 5 lines wiring	8
4.2 220V—3 phase 4 lines wiring	10
4.3 220V—1 phase 3 lines wiring	10
5. Pairing and Setting	12
5.1 Pairing	12
5.2 Setting Current Threshold	14
6. Fuse Replacement	16

1. 产品介绍

用户可通过联动器实现集尘器与尘源设备的同步运作，简易地安装和设置后，尘源设备的启停将会自动关联集尘器的启停。

2. 工作原理

联动器接在总电源和尘源设备之间，通过检测回路中的电流大小判断尘源设备是否开启，并通过 WIFI 将信号传输至集尘器控制柜内的主控器，从而联锁集尘器的启停。

联动器的工作原理如下图 1 所示：

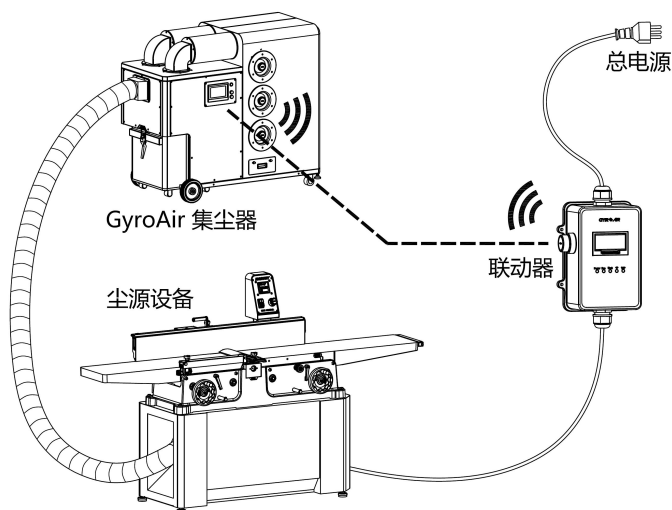


图 1

⚠ NOTICE

只有正确地配对、设置联动器和主控器，才能保证联动功能的正常运行。

1. Introduction

The user can achieve the synchronous operation of the dust processors and the dust source equipment by using synchronized control. After simple installation and setup, the start and stop of the dust processors will be automatically associate the dust source equipment.

2. Working Principle

The synchronized control is connected between the main power supply and the dust source equipment, by checking the current in the loop current to determine whether the dust source equipment is start or not, then transmits the signal to the main controller of the dust processor through WIFI to start or stop the dust processor.

The synchronized control works as shown in Fig 1:

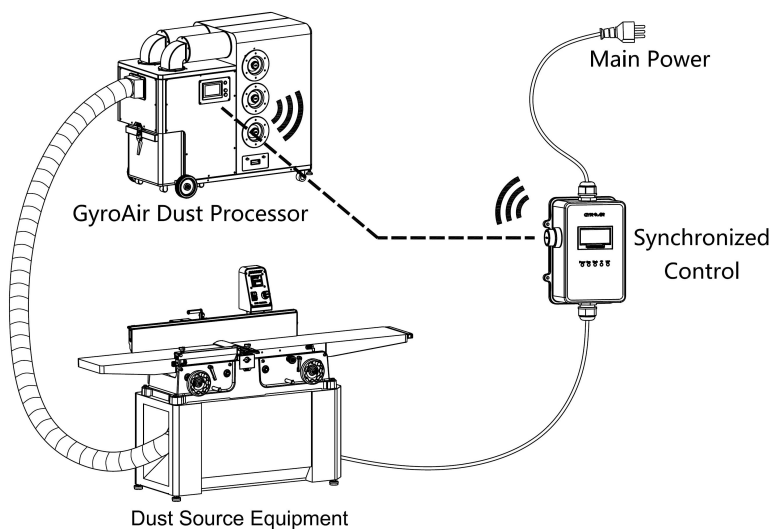


Fig 1

NOTICE

Only correct pairing and setting of the synchronized control and main controller could ensure the linkage function working well.

3. 面板说明

- ① 拨码开关 1：备用拨码，无需设置；
- ② 拨码开关 2：用于与集尘器主控器配对调试；
- ③ 调节旋钮：用于调节电流门限；
- ④ 电源指示灯：联动器通电后，电源指示灯（红）常亮；
- ⑤ 运行指示灯：联动器通电后如运行正常，运行指示灯（黄）闪烁；
- ⑥ 工作指示灯：工作指示灯（蓝）用于判断电流门限值是否设置成功，详见第 5.2 章节；
- ⑦ 信号灯：当联动器与集尘器控制柜内的主控器成功配对，并建立通信连接后，WIFI 信号灯（绿）与 TCP 信号灯（红）闪烁。
- ⑧ 熔断器支座：用于安装熔断器。

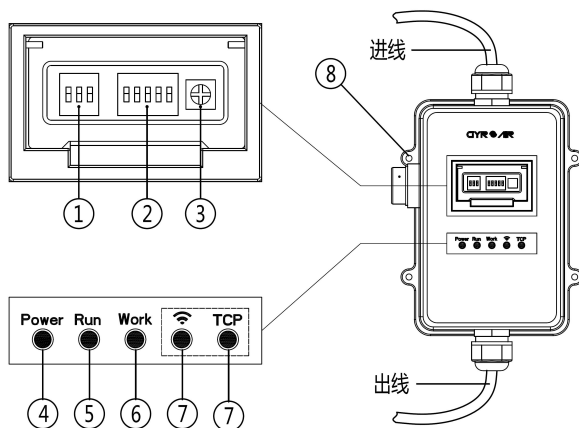


图 2



NOTICE

进线口电缆与出线口电缆不得接反。

3. Panel Description

- ① Dial Switch 1 : Backup dial switch, do not need to set;
- ② Dial Switch 2 : For pairing with the main controller of the dust processor ;
- ③ Adjusting Button : Used to adjust current threshold ;
- ④ Power Light : After the device is powered on, the power light (red) is always on;
- ⑤ Running Light : After the device is powered on and running normally, the running light (yellow) flashes;
- ⑥ Working Light : The working light (blue) is used to determine if the current threshold is set successfully, for more details in Section 5.2 ;
- ⑦ Signal Light: WIFI signal light (green) and TCP signal light (red) flash after successfully paired with the main controller of the dust processors and the communication connection is established.
- ⑧ Fuse support: For mounting fuse.

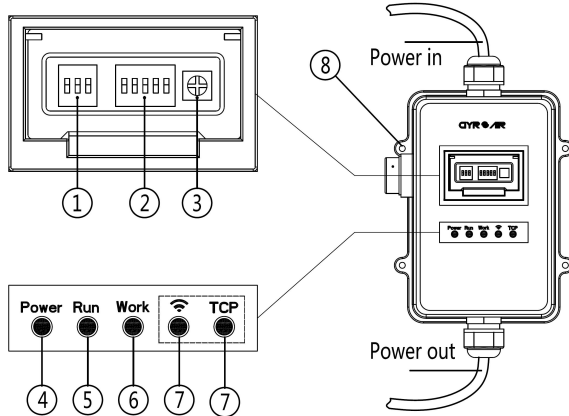


Fig 2



NOTICE

The inlet wire and outlet wire shall not be reverse connected.

4. 设备接线

WARNING

接线操作必须由受过专业培训的电工完成。

接线操作前，必须断开电缆电源，以免发生触电危险。

4.1 380V 三相五线制接线

1) 如图 3 所示，使用 2.5#内六角扳手拆除后盖板螺栓，按图 4 的接线示意图，将联动器接至总电源和尘源设备之间；

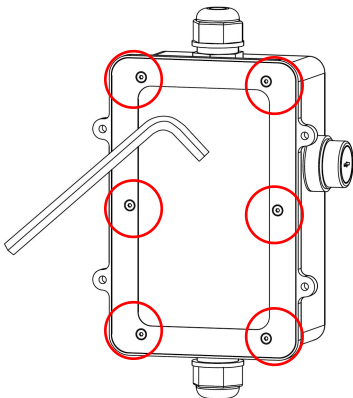


图 3

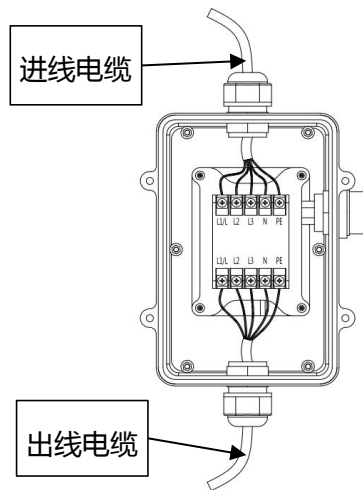


图 4

2) 相线接 L1/L、L2、L3 端口，地线接 PE 端口，零线接 N 端口。

3) 接线完毕后，安装回后盖板。

4. Wiring

WARNING

Wiring operations must be achieved by professionally trained electricians.

Before wiring operation, the power supply should be disconnected to avoid of electric shock.

4.1 380V-3 phase 5 lines wiring

1) As shown in Fig 3, remove the rear cover bolts by using a 2.5# hex key, and connect the couplings between the main power supply and the dust source equipment as shown in Fig 4;

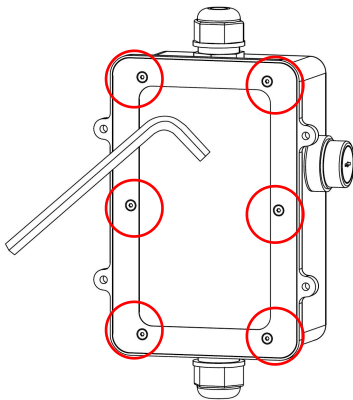


Fig 3

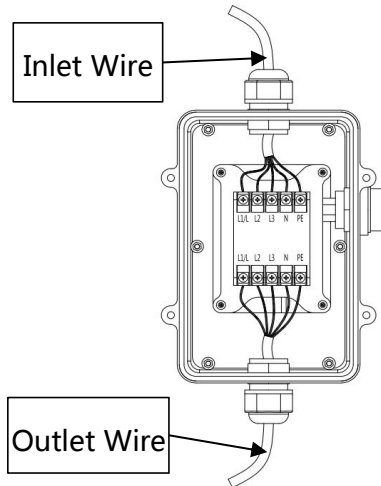


Fig 4

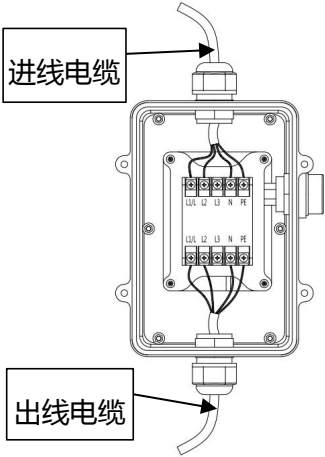
2) The phase wires should connect to L1/L, L2, L3 ports, grounding wire should connect to PE port, and zero wire should connect to N port.

3) After wiring, install the rear cover back.

4.2 220V 三相四线制接线

相线接 L1/L, L2, N 端口, 地线接 PE 端口, 如下图 5 所示。

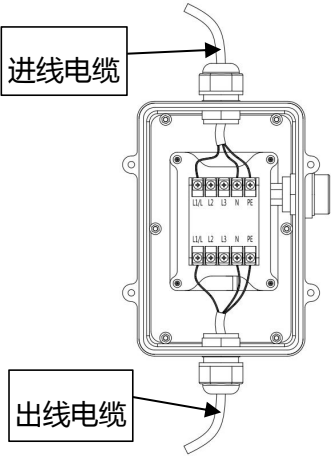
图 5



4.3 220V 单相三线制接线

相线接 L1/L 端口, 地线接 PE 端口, 零线接 N 端口, 如下图 6 所示。

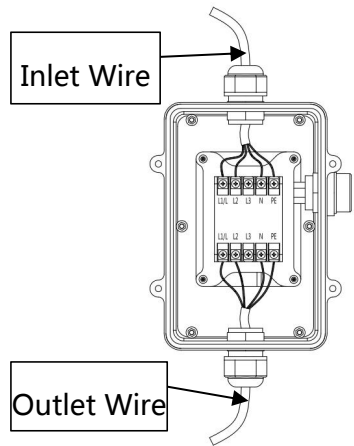
图 6



4.2 220V-3 phase 4 lines wiring

The phase wires should connect to L1/L, L2, N ports, grounding wire should connect to PE port, as shown in Fig 5.

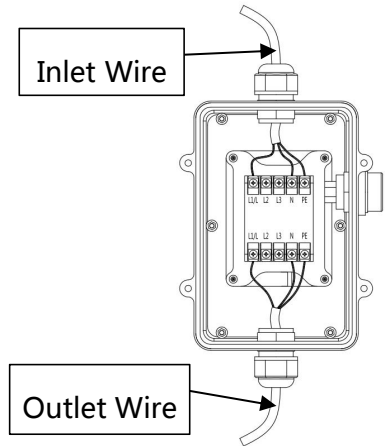
Fig 5



4.3 220V-1 phase 3 lines wiring

The phase wire should connect to L1/L ports, grounding wire should connect to PE port, and zero wire should connect to N port, as shown in Fig 6.

Fig 6



5. 配对与设置

5.1 联动器与主控器配对

1) 在 G800 集尘器的 OLED 面板或 G1000 集尘器的触摸屏上设置集尘器的控制模式为联动模式 (联动模式设置方法见集尘器使用说明书);

2) 如图 7 所示, 将联动器上拨码开关值调整至与主控器拨码开关值一致。

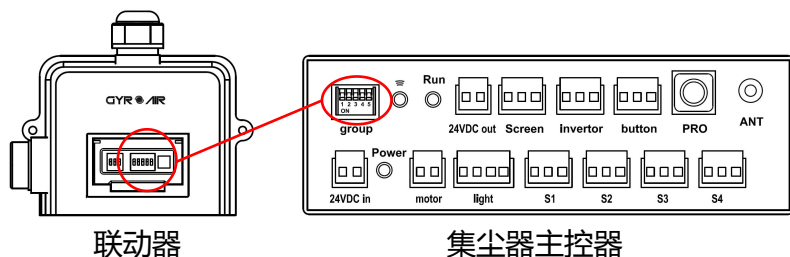


图 7

⚠ NOTICE

联动器拨码开关安装时可能倒置, 谨记拨码开关靠近数字端为 ON。如图 8 所示, 拨码值均为 123。

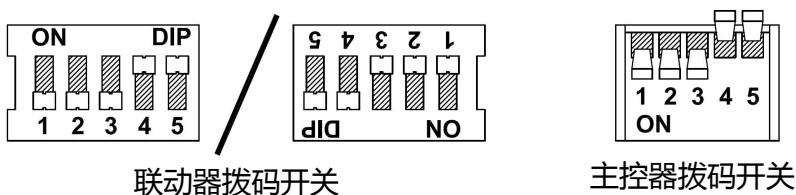


图 8

⚠ NOTICE

当同一场地有多台集尘器使用时, 为使各自的无线遥控功能不产生干扰, 需要用户自行调整各自的拨码开关值。

5. Pairing and Setting

5.1 Pairing

- 1) Set the control mode of the dust collector to the linkage mode on the touch screen of the OLED panel of the G800 dust processor or the G1000 dust processor (see the operation instruction of the dust processor in the linkage mode setting);
- 2) Adjust the the dial switch values on the synchronized control the same to the main controller, as shown in Fig 7.

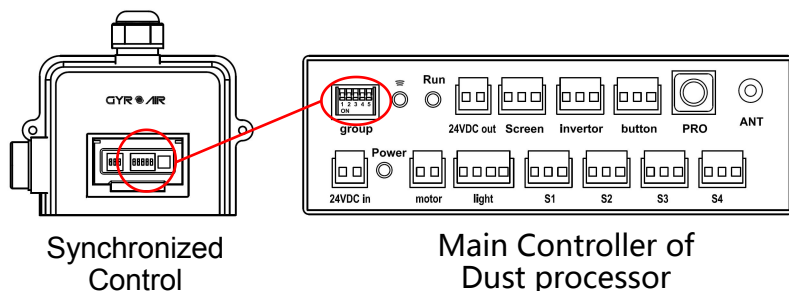


Fig 7

⚠ NOTICE

It is possible to put the dial switch upside down when it is installed, remember that the dialing value is ON close to the figure. As shown in Fig 8, the dialing value is 123.

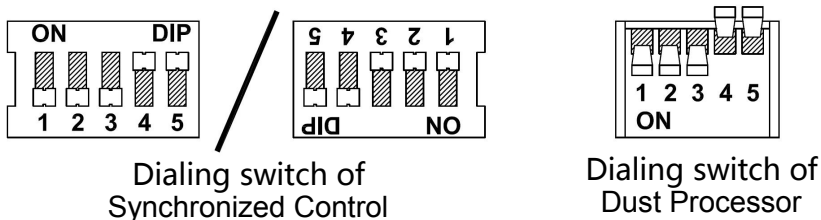


Fig8

⚠ NOTICE

When more than one dust processor are used in the same area, in order to make the synchronized controls function without interference, it needs to set to different dial switch values. Both the main controller of dust processor and the synchronized control need to be re-coded.

5.2 联动器电流门限设置

1) 联动器配对成功后，启动用户尘源设备，用平口螺丝刀顺时针旋转调节旋钮到底，如图 9 所示；

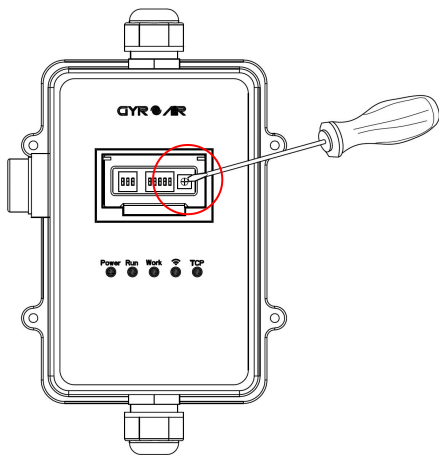


图 9

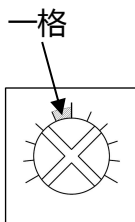


图 10

2) 如联动器工作指示灯（蓝）亮，则无需旋转调节旋钮；
3) 如联动器工作指示灯（蓝）不亮，慢速逆时针旋转调节旋钮，直到工作指示灯亮为止（通常建议指示灯亮后，再逆时针旋转一格，如图 10 所示）。

5.2 Setting Current Threshold

1) After pairing successfully, start the dust source equipment, and rotate the adjusting knob clockwise with a flat screwdriver , as shown in Fig 9;

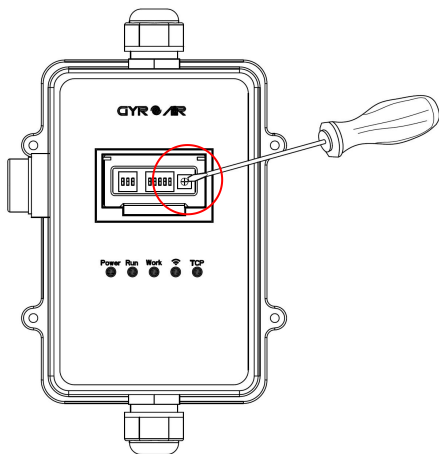


Fig 9

one grid

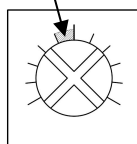


Fig 10

2) If the working light (blue) is on, it is not required to set;
3) If the working light (blue) does not light, rotate the adjustment knob counterclockwise until the working light is on (usually when the working light is on, turn counter-clockwise one grid , as shown in Fig 10).

6. 更换熔断器

熔断器被击穿时，设备将不能启动，需更换熔断器。

更换熔断器步骤：

1) 断开设备电源；

2) 如图 8 所示，使用平口螺丝刀逆时针将熔断器套件从支座旋转出；

3) 如图 9 所示，将熔断器从套件中拔出，更换一只新的熔断器，熔断器规格：陶瓷管型，30A，尺寸： $\Phi 10 \times 38 \text{mm}$ 。

4) 将熔断器套件安装回支座内。

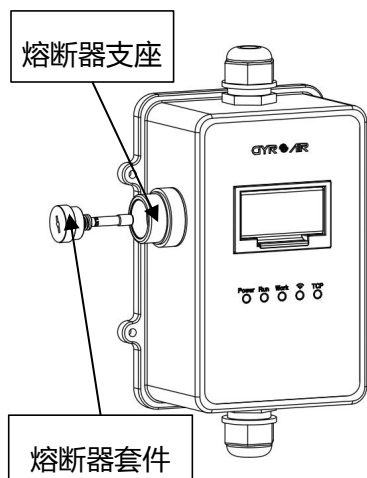


图 8

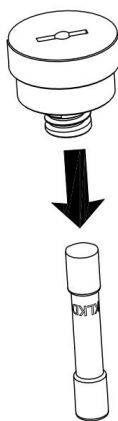


图 9

6. Fuse Replacement

When the fuse is broken down, the device will not start and the fuse will need to be replaced.

Follow the steps to replace the fuse:

- 1) Disconnect the power supply of the equipment;
- 2) Use a flat screwdriver counterclockwise rotate the fuse assembly out of the support, as shown in Fig 8;
- 3) As shown in Fig 9, pull the fuse out of the kit and replace a new fuse. The fuse should meets the specification of ceramic tube type , 30A, size: Φ 10x38mm.
- 4) Install the fuse kit back into the support.

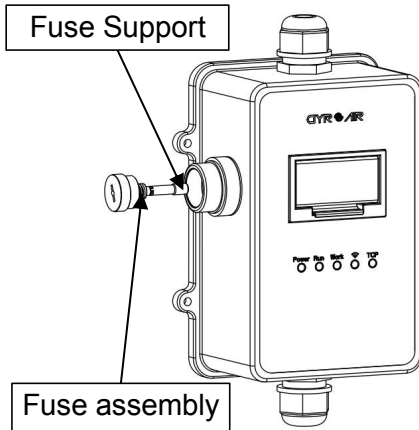


Fig 8

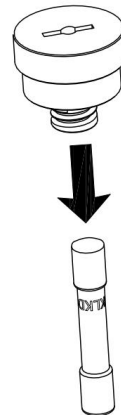


Fig 9



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