

YuanLang Wheelchair Controller Specification

1. Fault Instructions

Anti-runaway function Fault, the power light blinks once

Hall fault(Left Motor), the power light blinks twice

Hall fault(Right Motor), the power light blinks three times

Under-voltage fault, the power light blinks four times

Motor Phase fault(Left), the power light blinks five times

Motor Phase fault(Right), the power light blinks six times

Electromagnetic clutch fault (Left),the power light blinks seven times

Electromagnetic clutch fault (Right),the power light blinks eight times

Mosft fault, the power light blinks nine times

Communication fault, the power light blinks ten times

2. Access to parameter setting:

- 1) Turn-on the power, keep joystick and motor without any operation. Long press “+” & “-” buttons 3 seconds at the same time ,till the BATT (Battery light) will flicker .



- 2)Switching Parameter setting: Short press “+”&“-”, enter next parameter setting.



3) Changing Parameter setting: Press “+” or “-”, set point will be changed.



4) Saving Parameter setting: After choosing proper parameter, long press “+” & “-” buttons for 3 seconds, save and quit, return to run.



5) Canceling setting: Pressing power button while setting, previous setting will be canceled.

3. Parameter programming setting:

1) The first light flashes, electromagnetic clutch On or Off setting (default: 1), 1 is ON, 0 is Off. Setting range: 0~1.

2) The second light flashes, left-motor compensating setting (default: 3), when wheels turn more left always, adjust left-motor compensating. Setting range: 1~5.

3) The third light flashes, right-motor compensating setting (default: 3), when wheels turn more right always, adjust right-motor compensating. Setting range: 1~5.

4) The fourth light flashes, standby time setting (default: 2), default of 10 minutes, each one light represents 5 minutes. More lights means longer standby time. Setting range: 1~5.

5) The fifth light flashes, acceleration and deceleration time needed in the same speed gear (default: 3), More lights means shorter time for the speed change. Setting range: 1~5.

6) The sixth light flashes, the highest speed setting (default: 3), one light represents 1 km/h. More lights means higher speed. Setting range: 1~5.

7) The seventh light flashes, turning sensitivity setting (default: 3), one light represents 5%. More lights means much more sensitive when turning. Setting range: 1~5.

8) The eighth light flashes, wheel diameter setting (default: 1), 1 for 8 inch, 2 for 10 inch, 3 for 12 inch, 4 for 14 inch, 5 for 16 inch. Setting range: 1~5.

9) The first and eighth light flash at the same time, left-motor phase setting (default: 0), adding one light represents one kind of phase. light all 5 lights up means the sixth phase. Setting range: 0~5.

10) The second and eighth light flash at the same time, forward or reverse of left-motor setting (default: 0), 0 is forward, 1 is reverse. Setting range: 0~1.

11) The third and eighth light flash at the same time, right-motor phase setting (default: 0), adding one light represents one kind of phase. light all 5 lights up means the sixth phase. Setting range: 0~5.

12) The fourth and eighth light flash at the same time, forward or reverse of right-motor setting (default: 0), 0 is forward, 1 is reverse. Setting range: 0~1.

13) The fifth and eighth light flash at the same time, battery type setting (default: 1), 1 for lead-acid battery, 2 for lithium battery, 3 for the battery 1V lower than normal lithium battery (Under-voltage of 24V lead-acid battery is 21.5V, lithium battery is 20.5V, all power light will be decreased at the same time). Setting range: 1~3.

14) The sixth and eighth light flash at the same time, electronic lock function setting (default: 0), 0 for electronic lock “On”, 1 for electronic lock “Off” (Using electronic lock: when running, long press electronic lock button for 5 seconds, power OFF, the lock is working by itself. Press electronic lock button, then press “+” within 10 seconds for three times, it will back to normal working mode again. Power will be OFF by itself after 10 seconds). Setting range: 0~1.

15) The seventh and eighth light flash at the same time, electromagnetic clutch turning Off time setting (default: 3), each one light represents 0.1 second delay. Default means after stopping motor, electromagnetic clutch will be turn-off with 0.3 second delay. More lights means longer delay. Setting range: 1~5.

Warm tips: The definition of left or right motor is decided to your wiring mode. Factory-defined is that the controller’s cover to be up, make the power plug to be the center, the left one called “left-motor”, right one called “right-motor”. If there is opposite wiring, the definition of left and right motor will be opposite.