

Intelligent Digital Barrier

User Manual V1.1

For model: GTN-BG001, GTN-BG004, GTN-BG007



Gentlen Industry Co., Limited.

Add: RM603 6/F HANG PONT COMM BLDG 31 TONKIN
ST CHEUNG SHA WAN KLN HONGKONG

Factory Add: 6/F, Building 1, Fuguo Industry Area, No. 28, Kuaifeng Road,
ShangMeiLin, Futian District, ShenZhen, GangGong, China

Tel:0755-29235726

Fax:0755-83120336

Gentlen Industry Co., Limited.

Web: www.gentlen168.com

§ Copyright Protection

This Manual is for **Gentlen Industry Co., Limited.** Copyright Protection
Our products has remained constantly improved and updated, and you choose the configuration may be different, at the same time, we are also seriously date of this manual, there might be some details of this manual is not realistic. And reserves the right to be modified at any time and inconvenience to notice in this statement.

§ Update Record

Revsion	Record	Date
V1. 1	The second issue on Intelligent Digital Barrier	2008.09

§ Technology Support

If you have any problem about the fixture, please kindly contact with the dealer where you purchased. By the way, you can get timely help via following ways

- ✧ Web: <http://www.gentlen168.com> Email: service@gentlen168.com
- ✧ Fax: 0755-83120336
- ✧ Tel: 0755-83106222 83121266
0755-83310715

§ Notes

Please must read this manual carefully before use;

This equipment for mechanical and electrical integration products, be sure the proper use, are not allowed to disassemble the product; The modification or change of the equipment without the party responsible for the recognition made, there may users can not use this equipment and are not warranty items.

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1. Products Introduce

Intelligent digital integration Barrier is **Gentlen Industry Co., Limited.** based on years of parking system application and research and development experience, and comprehensive on the market similar products technical advantages the new building of the new road gate. The product has the advantages of compact structure, beautiful appearance, convenient use, control functions.

2. Barrier movement prominent characteristics

A. use torque motor to replace the ordinary single-phase AC motor, the motor has the characteristics of large torque, good linearity, small torque ripple, long service life, low temperature rise characteristics.

B. use turbine gear and gear combination, both to extend the life and can avoid the motor reducer. The market of similar integral barrier gate generally only use a turbine speed, in order to control speed to increase turbine deceleration ratio and low speed single phase AC electric motor, this is the consequences of reducer short service life, the temperature rise of the motor is easy to halt.

C. advanced user-friendly manual clutch device, power outage can be conveniently manually lifting rod or rod

3. Electrical Parameters

Working Voltage: AC220V Power of Motor: 90W

Controller Input Voltage: AC220V Power: 5W

Working Condition: temperature $-20^{\circ}\text{C} \sim +65^{\circ}\text{C}$ Humidity $\leq 90\%$

Size: 372×267×1030 (L×W×H)

4. Function

♣ Remote control, manual button, external control three kinds of operating mode:

♣ With vehicle detector interface, can be configured vehicle detector, thereby

realizing the intelligent anti smashing protection and automatic brake function.

♣ External pressure waves or infrared device, thereby realizing smash-proof functions.

♣ With lifting state output interface

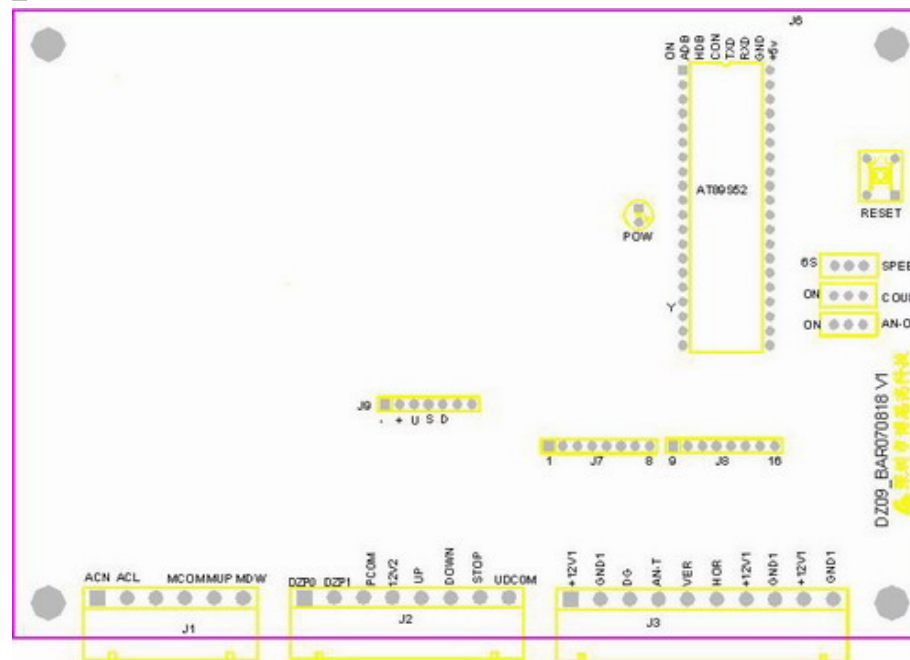
5. Barrier Length and Speed

For straight bar gate, when the length is in 3.5 meters of the following can be used when 3 seconds barrier gate, when the rod within 3.5 meters to 6 meters between use 6 seconds road gate.

A. for folding arm bar gate, rod length should not exceed 5 meters, barrier gate speed by 6 seconds.

B. for the fence bar gate, rod length should not exceed 4.5 meters, barrier gate speed by 6 seconds.

6. Control panel wiring instructions



Control Hookup

J1: AC220V power input and control of motor output

No.	Signal Define	Instruction
1	ACN	AC220V 0 line input
2	ACL	AC220V Battle Line input
3	MCCOM	Connect generator public side
4	MUP	Lift gate output control motor
5	MDOWN	Motor control gated output

J2 Interface Instruction (Barrier status feedback and lift/fall control interface)

No.	Signal Define	Instruction
1	DZP0,DZP1,PCOM	Barrier status feedback output, connection refer picture
2	12V2	2 nd direct current 12V power output (output capacity 1W, no good for connection others fixture)
3	UP,DOWN,STOP,UDCOM	Barrier lift/fall control interface, connection refer picture

J3 Interface Instruction (Limit signal and ground sensing signal input)

No.	Signal Define	Instruction
1	12V1,GND1	Direct current 12V power output interface
2	DG,GND	Ground sensing signal input
3	AN-T	Infrared anti smashing or pressure waves anti-smashing signal input
4	VER	Rise in Position signal input
5	HOR	Fall in Position signal input

J6 Interface Instruction (Backup control interface)

J7,J8 Interface Instruction : Separated interface control line

J9 Interface Instruction : Connected to remote control receiving module,

Model: YCR200M4

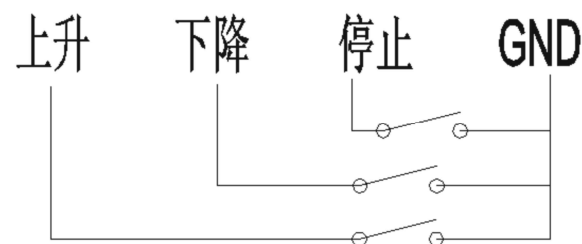
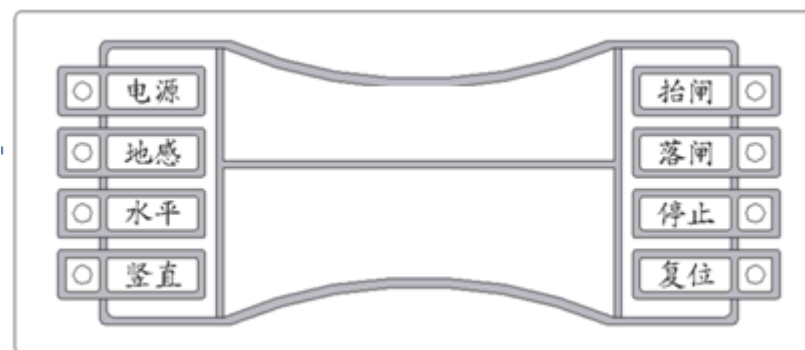
7. External Wiring Instructions

ACL ACN 地线 MCOM MUP MDW DZP0 DZP1 PCOM 上升 下降 停止 GND VER 12V HOR 地感 地感

ACL,ACN: AC220V input Ground Wire: Ground input

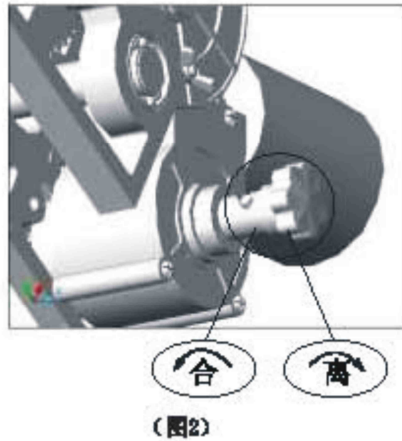
MCOM,MUP,MDW: Generator control, Has internal connected line

DZP0,DZP1,PCOM: Barrier status feedback, Wiring method of reference station controller wiring diagram, lift, fall and stop, GND barrier action control, interface method as below picture showing:

VER,12V,HOR: Barrier limit signal input, has an internal ground line sense
Sense: external ground sensing coil access terminal.**8. Control board**

Instruction: The pilot lights on Control board are used for showing signal input status. Key press is used for manual control the barrier lift/fall or reset SCM.

9. Clutch



Clutch Showing map

10. Daliy maintain and Protect

Y. Regularly clean the dust and debris within the machine, keep the machine clean.

Y. Every three months for a movable connection component filling lubricating oil, maintain good lubrication state.

Y. Timing check fastening parts is loose and can timely and strong.

Y. Found that the wear element should be replaced.

11. Notes

A. Don't open the box's door and cap when barrier are running. To avoid any suddenness, please do it after the power off.

B. After the barrier send out from factory, all off the lines already set internal. In general, user no need to change lines. Only need interface the power line and signal control line to work normally.

C. The fixture's housing must connect ground and setup a leakage protection

switch in the beginning of power

D. Must shut down the clutch before power connect

Automatic Parking Barrier provides a secure and convenient solution of stopping unauthorized vehicle or giving access to authorized vehicle on toll gate, or parking lots with high traffic flow such as shopping center, exhibition center, hospitals, airports, government building, office building, plant etc.