

90 Blue Plus

Control card instructions.

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Control Card wiring and setup cont.....

1. Motor – 2. Output. Red for Inward swing (Outward swing Black)
2. Motor – 2. Output. Black for Inward swing (Outward swing Red)
3. Battery 1 Positive. Red **(In a single 24V battery installation this is the positive used)**
4. Battery 1 Negative. Black **(This is not used in a single 24V battery installation)**
5. Battery 2 Positive. Red **(This is not used in a single 24V battery installation)**
6. Battery 2 Negative. Black **(In a single 24V battery installation this is the Negative used)**
7. Motor – 1. Output. Red for Inward swing (Outward swing Black)
8. Motor – 1. Output. Black for Inward swing (Outward swing Red)
9. Courtesy light or lock relay N/O output.
(Max Current 3A.) Check J2 jumper for type of output selected either lock or courtesy light.
10. Courtesy light or lock relay COM.
(Max Current 3A.) Check J2 jumper for type of output selected either lock or courtesy light.
11. 29Vac from transformer
12. 29Vac from transformer
13. Common supply to switching devices
14. Button trigger input (BT) N/O
15. Safety beam input (BM) N/O
16. Pedestrian opening input (PD) N/O
17. Motor 2 Open limit input (Yellow for INWARD swing) N/C
18. Motor 2 Closed limit input (Black for INWARD swing) N/C
19. Motor Limit common (Red of both motors)
20. Motor 1 Open limit input (Yellow for INWARD swing) N/C
21. Motor 1 Closed limit input (Black for INWARD swing) N/C
22. External Status LED cathode (-) output
23. External Status LED anode (+) output
24. Auxiliary 0Vdc output
25. Auxiliary 12Vdc positive output (Max 500mA)

A. Motor 1 Load sensing adjustment. Anti-clockwise = more sensitive. Clock-wise less sensitive.

B. Motor 2 Load sensing adjustment. Anti-clockwise = more sensitive. Clock-wise less sensitive.

On encountering an obstruction while closing the gates will stop. Then re-open away from the obstruction.

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C. Receiver programming pins: Max BT (Button trigger) = 25 locations. Max PD (Pedestrian) = 6 locations.

To master erase: (It is recommended that this be done on first time set up)

1. Remove all power.
2. Short PD, middle and BT receiver pins
3. Re-apply power. Rx DET LED will begin flashing, wait.....
4. When RX DET LED remains on permanently remove the short and power
5. Re-apply mains power first then battery power.

Programming new Transmitters into memory

1. **Press and hold** required **TX button**.
2. **While holding** the **TX button** short the middle pin to the required function pin (BT or PD)
3. When RX DET LED flashes release TX button and remove short.
1 x Flash - First TX in memory for that function.
2 x Flashes – There is still memory available for this function.
10 x Flashes – The last memory location for this function has been filled.
Collect all TX's used for this function and check that they are all still working. The last TX learned into this function may have been erased to allow your new TX.
4. Repeat 1 to 3 above for further TX's.

D. RX detection L.E.D. This will flicker whenever there is a Keeloq transmission present on 433.92 MHz. Non Keeloq formats will not activate this L.E.D.

E. Motor 2 Fuse (3A max/30sec)

F. J1 Jumper.

- i. Off = both motors begin running at the same time.
- ii. On = M1 will begin opening 3 sec. before M2 starts to open. Then on closing M2 begins closing 3 sec. before M1 begins closing. This would be used when Gate 1 overlaps Gate 2 in the closed position.

G. J2 Jumper.

- i. Off = Courtesy light relay closes for 3min to switch pillar lights on
- ii. On = Courtesy light relay closes for 1 sec. And 0.5 sec before motor 1 begins to run.

H. Onboard test button. Pressing this button is the same as using your remote or wall button that opens and closes your gates.

I. Auto-close selector adjustment. There are 5 preset options available. Adjusting clockwise increases the auto-close time. After every successful adjustment the controller will beep confirmation of the new setting when the gates reach the full open position for the first time after the change is made.

- i. 5 sec. 1 beep
- ii. 10 sec. 2 beeps
- iii. 15 sec. 3 beeps
- iv. 20 sec. 4 beeps
- v. 25 sec. 5 beeps

J. Motor 2 Fuse (3A max/30sec)

K. AC input fuse. 800mA fast blow

L. Aux 12V+ fuse (500mA max/30sec)

M. AC Power indicator. On = AC present.

WARRANTY: All goods manufactured by G&C Electronics cc T/A ET Systems carry a 12 month factory warranty from date of invoice. All goods are warranted to be free of faulty components and manufacturing defects. Faulty goods will be repaired or replaced at the sole discretion of ET Systems free of charge. This warranty is subject to the goods being returned to the premises of ET Systems. The carriage of goods is for the customers account. This warranty is only valid if the correct installation and application of goods, as laid out in the applicable documentation accompanying said goods, is adhered to. All warranty claims must be accompanied by the original invoice. All claims made by the end user must be directed to their respective service provider/installer.

The following conditions will disqualify this product from the warranty as laid out above.

These conditions are non-negotiable.

- Any unauthorized non-manufacturer modifications to the product or components thereof.
- The use of the 90Blue plus swing gate operators in heavy traffic applications such as office parks and residential complexes.

The following items are not included in the warranty.

- Damage resultant of wind and other climatic influences such as lightning strikes.
- Damage due to infestation i.e. Ants nesting...