



OA6-24 24V Control Board

For Aqua-X Irrigation Control System

Overview

Thank you for purchasing our OA6-24 24V Control Board.

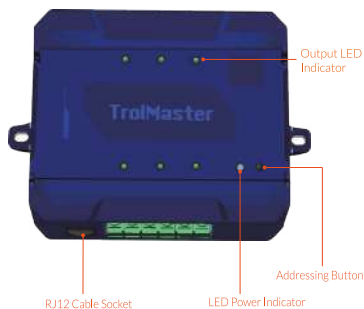
The OA6-24 24V Control Board is specially designed for Aqua-X Irrigation Control System. It features 6 individual 24V outputs for the solenoid valve control in the Aqua-X Control System. A solenoid valve is a basic component in automatic flow control in the irrigation system

With the use of 24V Control Board(s), the Aqua-X Irrigation Control System could manage up to 30 individually controlled 24V outputs (used to control solenoid valves) for multiple watering plans (by schedule or by recycle). With the massive control outputs, user could manage water delivery schedules easily for multiple nutrients, multiple rooms and multiple zones.

If you have any questions, please contact us:
TrolMaster Agro Instruments Co., Ltd.
1112 Eagleridge Blvd Pueblo, CO 81008

Features

- LED Power Indicator
- Addressing Button
- 6 Individually-Controlled 24V Outputs
- Individual LED Indicator for Each Output
- Double RJ12 Cable Sockets for Daisy Chain Connectivity



Operation Instructions

1. Connections to 24 Volt Solenoids

Each of the (6) OA6-24 outputs can have a separate common wire connected to it (on the C terminal), or a single common wire can be connected to one of the terminals marked C on the OA6-24. The common terminals are all internally connected together inside the OA6-24.

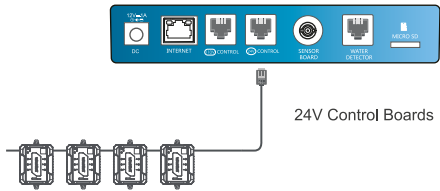
***NOTE:** If you have more than one OA6-24 module connected to your NFS controller, you must provide a separate common wire for EACH of the OA6-24. DO NOT "share" a common wire from one OA6-24 module to another OA6-24 module.

2. Connection to Aqua-X

Use a RJ12 Cable to connect the first 24V Control Board to the Aqua-X Controller. Plug the RJ12 cable connector into the 24V CONTROL port on the bottom of the Aqua-X Controller. Then plug the opposite RJ12 cable connector into the RJ12 cable socket on the either side of the first 24V Control Board.

Use another RJ12 cable to connect the second 24V Control Board. Plug the RJ12 cable connector into the RJ12 cable socket on the opposite side of the first 24V Control Board. Then plug the opposite RJ12 cable connector into the the RJ12 cable socket on the either side of the second 24V Control Board.

Other 24V Control Boards can be connected in series as above processes. However, the total connection number should not exceed 5 if the 24V Control Boards were used alone.



When the RJ12 cable is not correctly connected to the specific 24V CONTROL port or the 24V Control Board has not yet been assigned to the Aqua-X Controller, the LCD screen of the Aqua-X Controller will show "No 24V Board Online" on the setting page. Please make sure the RJ12 cable is correctly connected and power on the 24V Control Board. After power-on, the LED power indicator will keep flashing every second. Then press the ADDRESSING button on the 24V Control Board, the LCD screen of the Aqua-X Controller will display "24V Board A has been added". The first connected Control Board will be marked as "A", and the second one marked as "B", the third one as "C", and so on.

3. Address Assignment

When a 24V Control Board has been successfully connected to the Aqua-X Controller and powered on, the LED power indicator on the Control Board will keep flashing which means that the Control Board has not yet been assigned to the Aqua-X Controller.



24V Control Board



Aqua-X Controller

Aqua-X Controller



Unsuccessful Connection

Aqua-X Controller

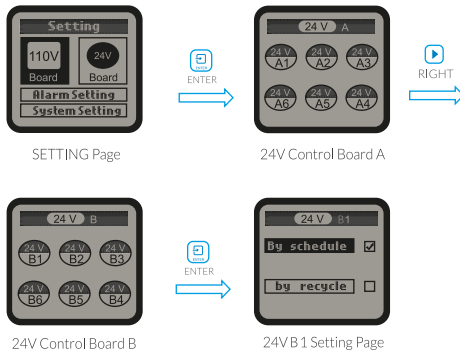


Successful Connection

4. 24V Control Board Setting

On the SETTING page, press the ENTER button to enter the 24V Control Board list page. The connected Control Board(s) will be shown page to page. User can press RIGHT button to select the 24V Control Board (A, B, C...) to change the setting.

When the Control Board is selected, press ENTER button and the 1st output will be highlighted and blinking. Press LEFT, RIGHT, UP or DOWN button to select the output such as 24V A1. Press ENTER button to confirm and enter the SETTING page of that output.

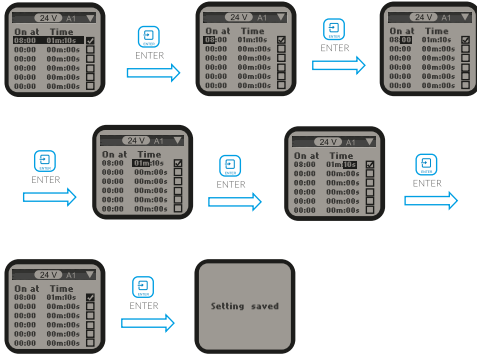


On the SETTING page of selected output such as 24V A1, press ENTER button and the tick icon on the “By schedule” will be highlighted and blinking. You can also press DOWN button to select “By recycle”. Press the ENTER button to confirm and save the setting.

a. By schedule:

Once the “By schedule” setting is selected, user can press ENTER button to activate the setting for the 1 line of total 12 lines of schedules. The HOUR of “On at” time will be highlighted and blinking, which means that it’s ready for change. User can press UP or DOWN button to change the HOUR. Press ENTER button and the MINUTE of “On at” will be highlighted and blinking, user can press UP or DOWN button to change the minute. Press ENTER button and the MINUTE of “Time” will be highlighted and blinking, user can press UP or DOWN button to change the minute. Press ENTER button and the SECOND will be highlighted and blinking, user can press UP or DOWN button to change the second. Press ENTER button and the tick symbol will be highlighted and blinking. Finally, press ENTER button to confirm and save the changes and the LCD screen will display “Setting saved”.

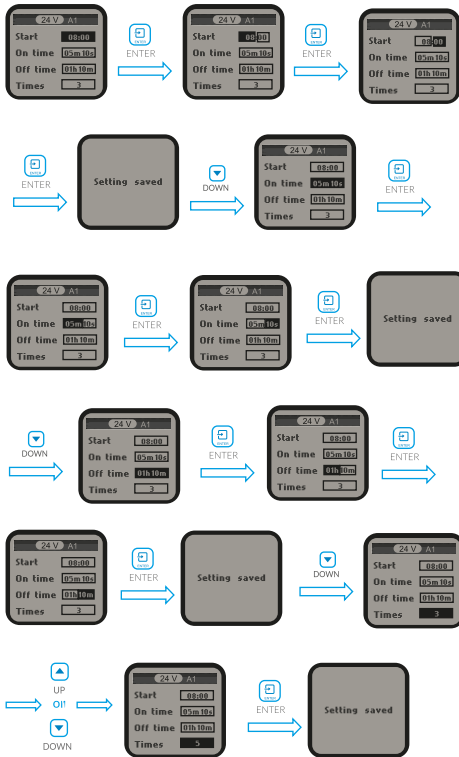
Similarly, user can change the “On at” & “Time” for other schedules (up to 12 lines) following the steps above.



b. By recycle:

Once the "By recycle" setting is selected, user can press UP or DOWN button to select "Start", "On time", "Off time" & "Times" to edit. Press ENTER button to activate the setting. For example, When "Start" is selected, press "ENTER" button and the HOUR will be highlighted and blinking, user can press UP or DOWN button to change the hour. Press ENTER button and the MINUTE will be highlighted and blinking, press UP or DOWN button to change the minute. Finally, press ENTER button to confirm and save and the LCD screen will display "Setting saved"

Similarly, user can change the "On time", "Off time" and "Times" accordingly.

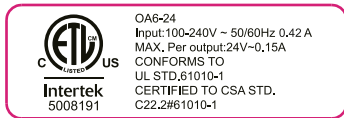


5. SPECIFICATIONS:

Input Voltage Tension d'entrée	110-240VAC, 50/60Hz 110-240 VAC, 50/60Hz
Certifications Certifications	ETL / FCC ETL / FCC
Degree of Ingress Protection Indice de protection	IP20 IP20
Max Output Voltage/Current	24VAC/0.2A per Output
Working Environments	Temperature 32-104°F,
	Humidity 90%
Package Dimensions	275(L) x 164(W) x 40mm(H)

6. GENERAL INFORMATION

- a). Please use TrolMaster's components for better performance.
- b). In the case of defects of the Control Board, the Control Board will either be replaced or repaired using new or reconditioned products or parts by TrolMaster within three-year warranty from the original date of purchase. For service, return the Control Board in good packaging to our agent with the original sale receipt.
- c). Non-professionals DO NOT open the cabinet to prevent electric shock or damage to the Control Board.



WARNING: DO NOT allow the Control Board to be exposed to water or excessive heat. DO NOT open or attempt to repair or disassemble the Control Board, as there are no user-serviceable parts inside. Opening the controller will void the warranty.

1. If the surface of Control Board is dirty, wipe it with a dry towel.
2. The Control Board is designed for indoor use only, it should be operated under natural ventilation conditions.
3. For safety, it's necessary to connect the ground wire. If a short circuit did occur, the current would flow through the ground wire, causing a blown fuse or tripped circuit breaker.
4. The Control Board should be positioned in a place that it's easily to be pulled out when a fault occurs.



AVERTISSEMENT: N'exposez PAS le Control Board à de l'eau ou à une chaleur excessive. NE l'ouvrez PAS, NE tentez PAS de le réparer ou de le démonter, car il ne contient aucune pièce réparable par l'utilisateur. L'ouverture du régulateur entraîne l'annulation de la garantie.

1. Si la surface du Control Board est sale, essuyez-la à l'aide d'un chiffon sec.
2. Le Control Board fonctionne sous des conditions de ventilation naturelle.
3. Pour la sécurité, il est nécessaire de connecter le fil de terre. Si un court-circuit se produisait, le courant circulerait à travers le fil de terre, causant un fusible grillé ou un disjoncteur déclenché.
4. La Control Board de l'appareil doit être placée dans un endroit où il est facile de la retirer en cas de panne.

TrolMaster

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