

AQUADECK®

POOLCOVERS

EN



AQUA-DCB MANUEL

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AQUA DCB Controller

The AQUA DCB Controller has been specially developed to simplify control programming for the pool builder/installer.

Thanks to the DCB's Bluetooth module, the Aquadeck Pool Cover app and smartphone can be used to add the AQUA DCB after which the cover can be set up. The start and end positions can then be set.

The rotation direction of the motor can be adjusted and the winding and unwinding speed can be adjusted. The AQUA DCB is capable of controlling almost all other brands of tubular motors. Contact Aquadeck for an overview of tube motors that can be controlled.

!! The AQUA DCB is NOT designed to let the pool user open and close the cover with the app. For safety reasons, the cover should be opened with a visual view of the pool at all times. Therefore, the user operates the cover with the remote control and/or key switch.

The AQUA DCB features a robust motor power supply, Bluetooth communication for easy installation and provides insight into the status of the cover.

Aqua DCB Controller app

Download the AQUA DCB CONTROLLER app for easy installation.

The AQUA DCB CONTROLLER app can be found in your smartphone's app store.

iOS

<https://apps.apple.com/app/aquadeck-pool-cover-controller/id6450740151>



Android

<https://www.dropbox.com/s/xd22yobmixfjpf5/app-debug.apk?dl=0>

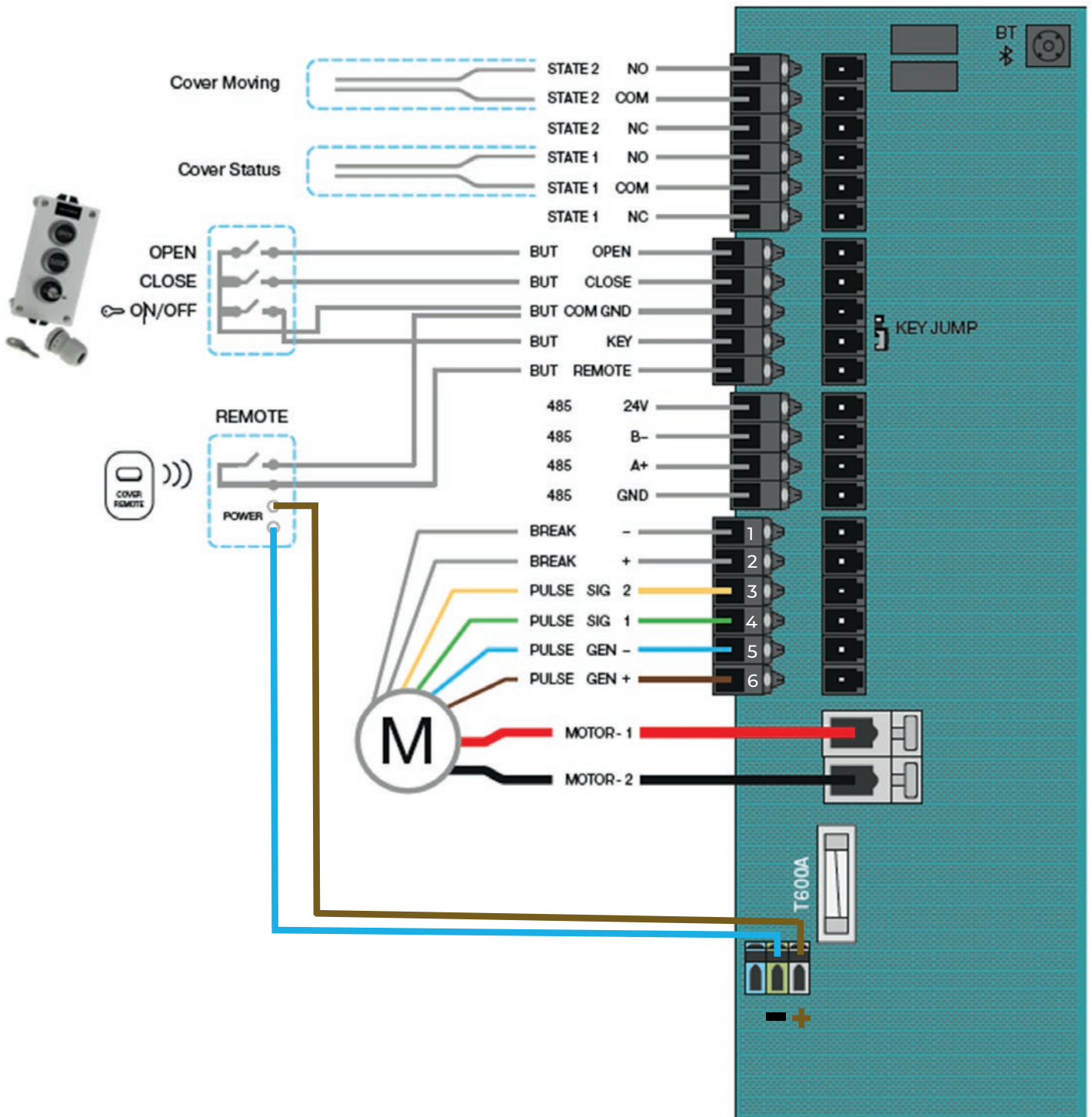


Required tools

- Flat screwdriver size 0, for connections in the DCB.
- Torque Allen spanner size 2 mm with maximum force 2Nm, for screws Touch panel.

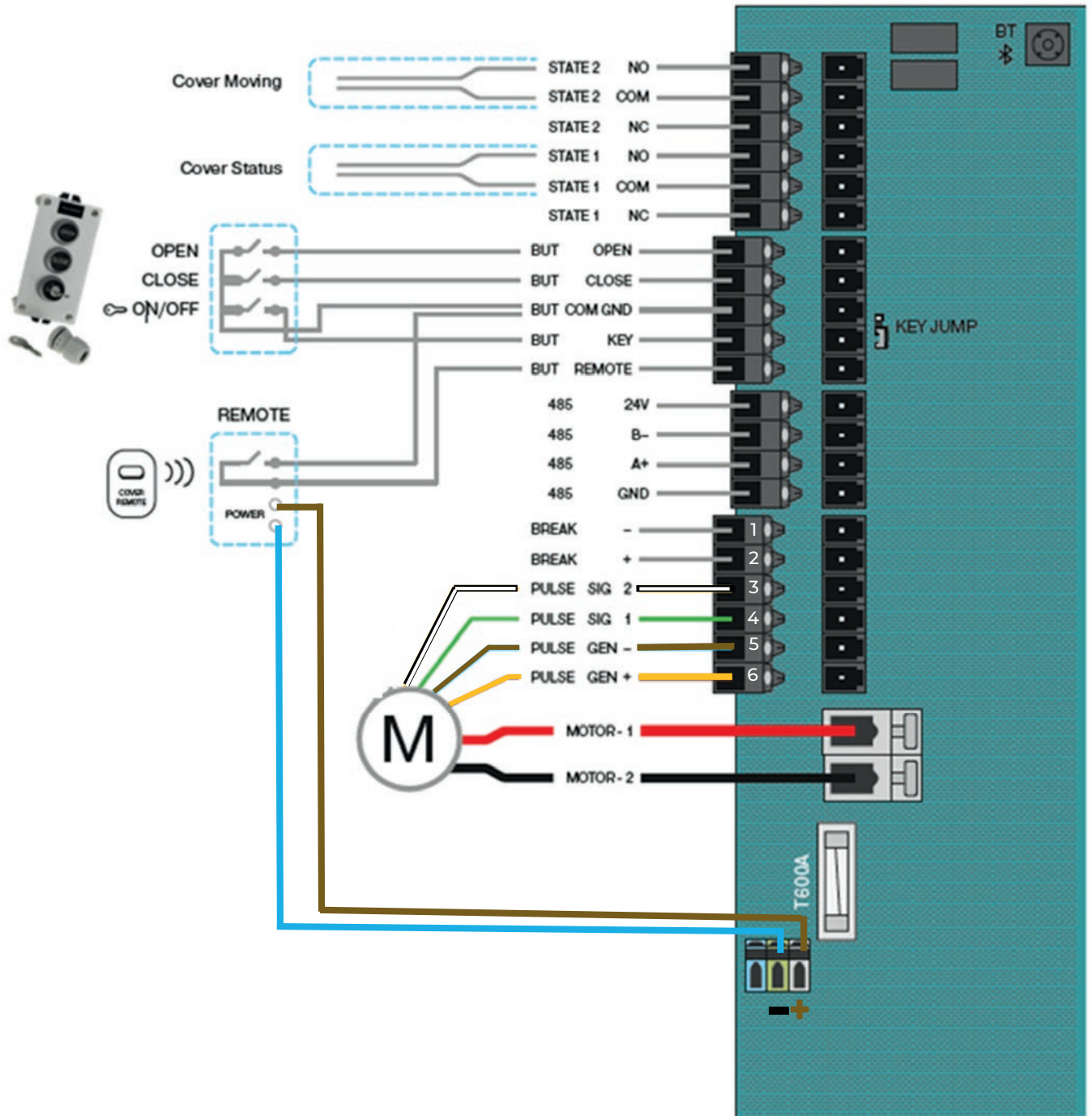
Aqua DCB Controller Connections

Tubular motor 250 Nm



If you have analog keyswitch, the jumper should be off. If you have LED screen, the jumper should be on.

External motor 120 / 250 Nm



If you have analog keyswitch, the jumper should be off. If you have LED screen, the jumper should be on.



Pool cover LED control panel touchscreen

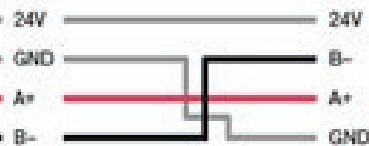
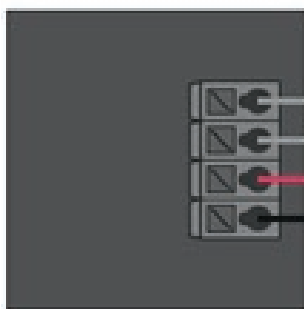
Designed to operate the pool cover, the touchscreen completely replaces the traditional mechanical Button with a lock. This allows you to open and close the covers easily.

After a short period of inactivity, the button is automatically locked, further operation requires entering A security code. Any DCB codes can be easily read out via the control panel.

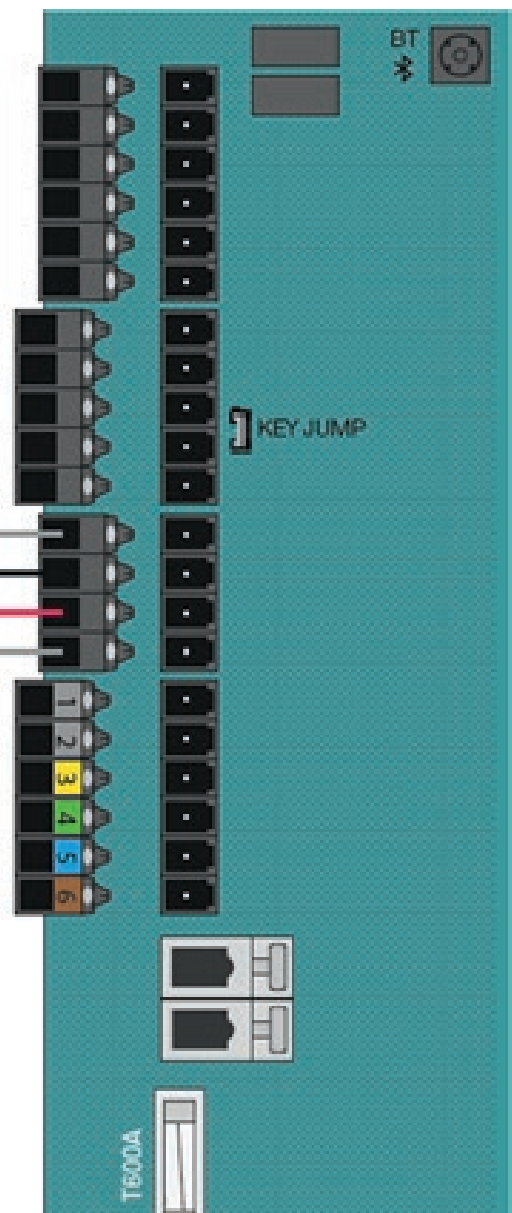
The security code is **2734**.

Tip: Choose the DCB control box if you know that your customer wishes to operate the cover using a touchscreen. The touchscreen can be added later and connected by wire to the DCB control box.

Touch Switch



Pool Cover Controller



Key switch

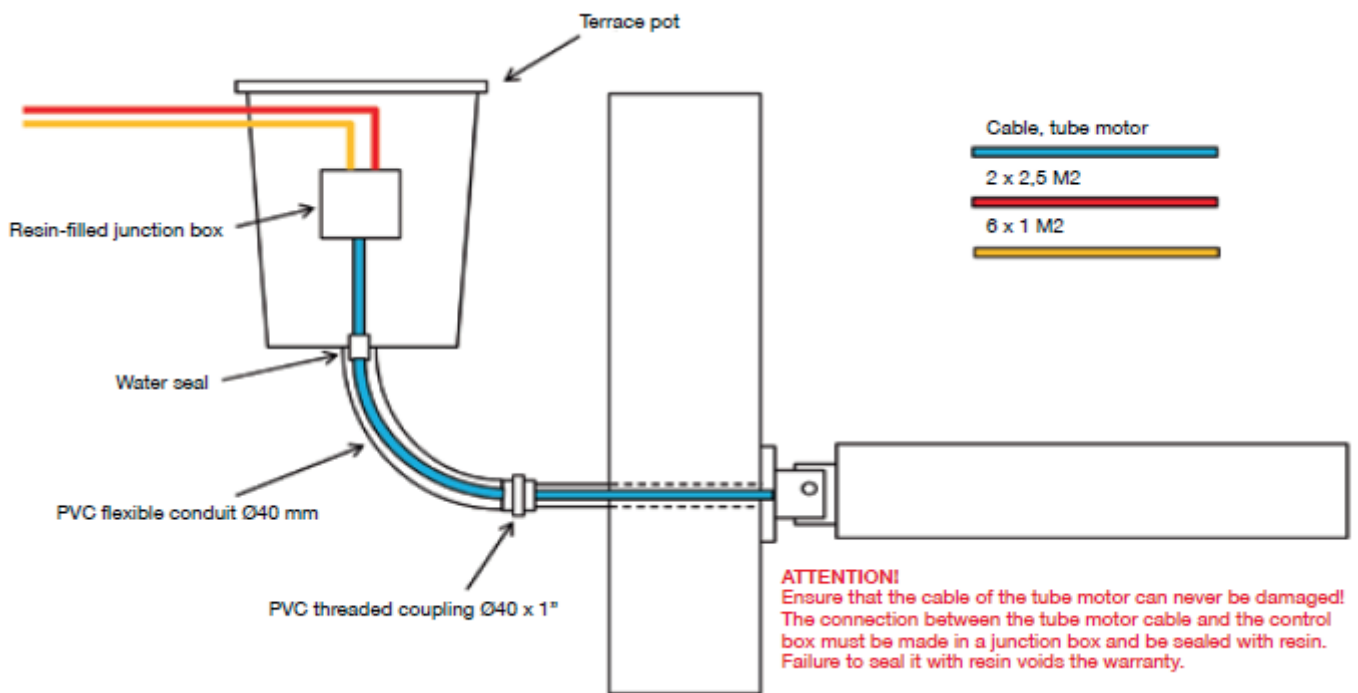
The pool cover is equipped with a security key system to enhance security functions. For the pool cover to function properly, it is essential to insert the security key and turn it to the correct position (I). Without a security key, the pool cover does not respond to instructions, preventing unintended operation.

FOR SERVICE

If for any reason you do not want to use the security key, for example during testing or commissioning, you can override it with the security key's jumper marked as "KEY JUMP".

Extending Tubular Motor

When you cannot connect the cable directly to the technical room.

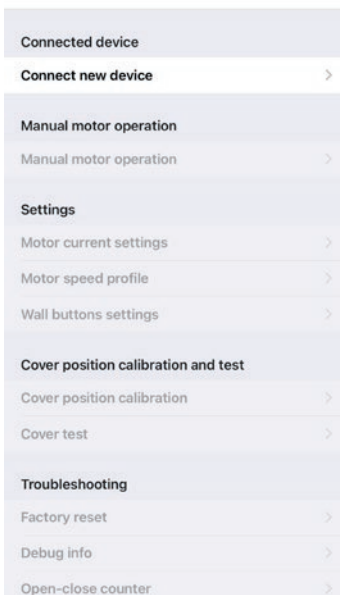


MOTOR 24V

Extend 25 metres with 2x2.5 mm²

MOTOR CONTACTS

Extend 25 metres with 6x1 mm²



First installation

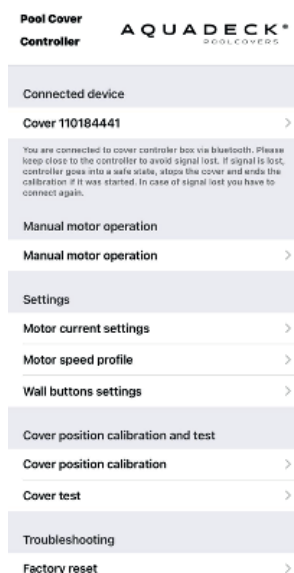
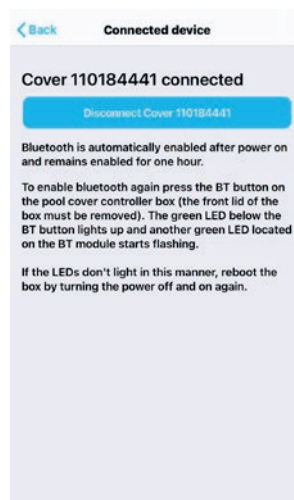
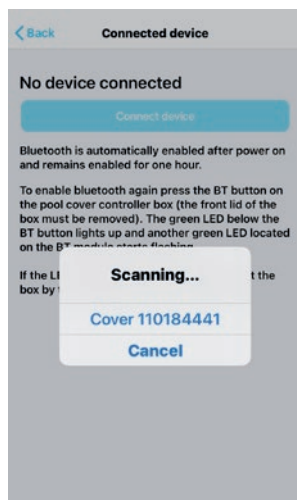
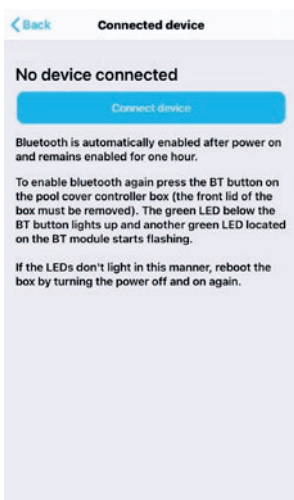
Main menu

Open the AQUA DCB CONTROLLER app to display the main menu. Follow the steps below to install your Aqua DCB Controller.

Connecting a new device

Connect to the Pool Cover Controller via Bluetooth:

1. Switch on the AQUA DCB Controller.
2. Turn on Bluetooth on the device you are using to set up the Pool Cover Controller.
3. Open the app, go to “Connect new device” and press “Connect device”.
4. Choose your device from the list of available devices. This device is shown as a pool cover. If the
5. pool cover is not listed, try enabling Bluetooth for the Pool Cover Controller again (step 1).
6. Once connected, the device is indicated as connected (“Connected”).



[← Back](#) **Wall buttons**

Choose how many buttons you want to use for controlling the cover.

Two buttons mode has separate button for closing and opening.

One button mode has one button which is used for closing, stopping and opening the cover.

Dead man closing option requires you to push and hold the button for close the cover.

Buttons count Two buttons ▾

Dead man closing

SAVE

[← Back](#) **Speed profile**

Setting of optional speed ramps to slow start of the cover motor.

start at speed	50 %
in	5 s
increase to speed	75 %
maintain	5 s
increase to full speed	100 %
in	5 s

You can choose if you want to use slow start for closing or opening or both.

Use for CLOSING

Use for OPENING

SAVE

[reset values](#)

[← Back](#) **Motor current**

Peak motor current and average current is shown here. You can set the safety value of the current, if it is exceeded, the motor switches off.

Maximal current	0 A
Steady current	0 A
Maximal safety	10 A

SAVE

[← Back](#) **Manual motor operation**

ⓘ

Manual motor operation is intended only for pool cover installation or testing the motor during the installation. Motor is not working in a safe manner, and recalibration of the end positions is needed.

Control unit is not reading the motor pulses. End positions of the cover are not checked in this mode.

ENTER the manual motor operation

ENTER

Keys

Select wall buttons from the main menu.

1. Select how many buttons you have connected to control the Aqua DCB Controller.
2. Option “The dead man switch”
 - If this option is enabled, the button must remain pressed during the entire opening/closing time of the pool cover.
 - If this option is disabled, the pool cover is fully closed/opened at the push of a button.

Speed profile

Set the speed to open and close the pool cover. To open and close the pool cover properly, start at low speed and slowly increase it.

1. Set the percentage initial speed (SPEED).
2. The initial speed (SPEED) continuously increases to the second speed (SPEED) in the first set time duration (TIME).
3. When the second speed (SPEED) is reached, it remains active for the second time duration (TIME).
4. After the second time duration (TIME) elapses, the speed continuously increases to full speed (FULL SPEED) in the third set time duration (TIME). Full speed (FULL SPEED) is maintained until the pool cover is fully closed/opened (CLOSED/OPEN).

You can use this option to open and/or close the pool cover.

Motor current

Set the safety current of the Pool Cover Controller. After testing the device at the first setting, you will see the maximum current and constant current. You can set a maximum safety current to switch off the Aqua DCB Controller if that current is exceeded.

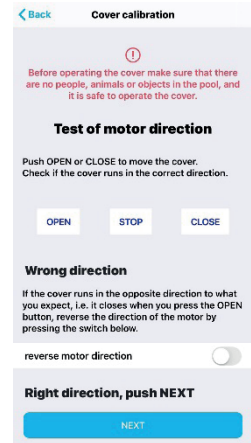
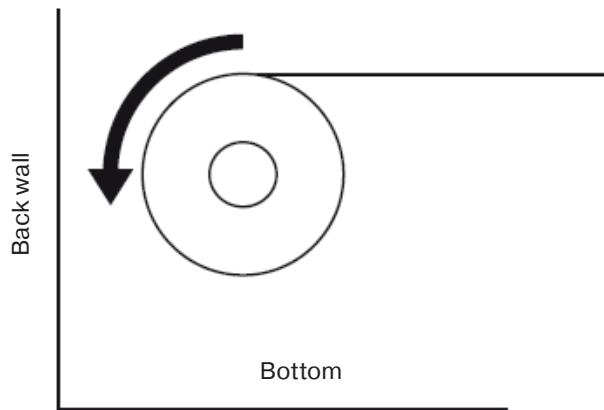
Motor test

This menu allows you to test the motor during installation (e.g. while installing the pool cover slats).

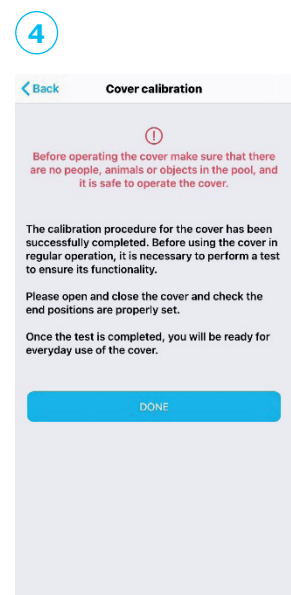
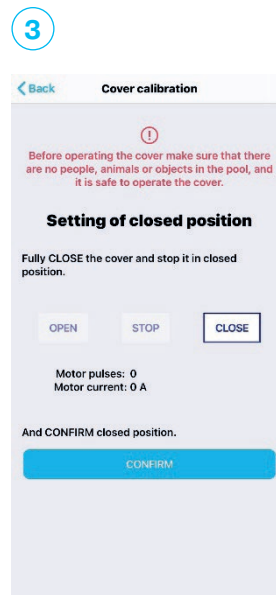
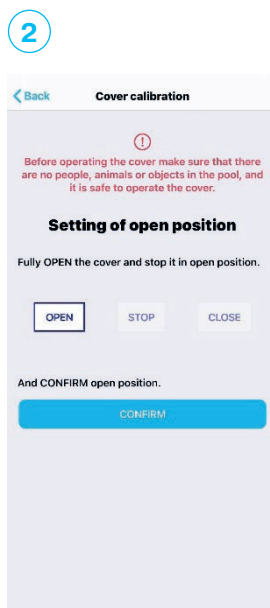
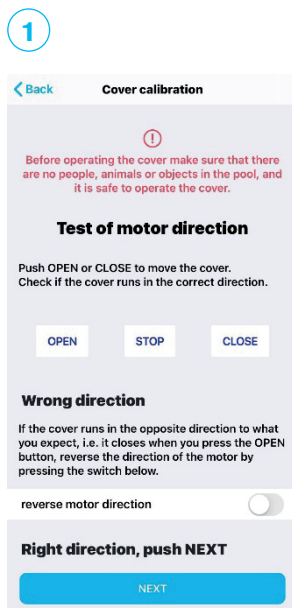
Calibration

In this menu, you can calibrate the Aqua DCB Controller.

1. Motor direction - press the OPEN button and check that the pool cover moves in the right direction. If the pool cover moves in the wrong direction, STOP the movement of the pool cover, select the reverse motor direction and try again. When the pool cover now moves in the right direction, STOP the cover and press NEXT. If the motor does not work, check the connection of the motor to the Aqua DCB Controller.



2. Set open position - Press OPEN. When the pool cover is fully opened, STOP the movement of the pool cover and CONFIRM the position.
3. Set closed position - Press CLOSE. When the pool cover is fully closed, STOP the movement of the pool cover and CONFIRM the position.
4. CONFIRM the calibration of the pool cover.





Calibrate end positions of the pool cover with the buttons

Proceed as follows to calibrate the position of the pool cover without a smartphone. You can open the simplified calibration with the internal button in the box and use the external button to move the pool cover to the desired position.

Read the whole instruction first and then perform the individual steps of each stage to calibrate the end positions of the pool cover.

Remove the top cover of the pool cover drive unit.

To enter end-position calibration mode, press and hold the BT (Bluetooth) button for about five seconds until four green LED indicators in the row light up in succession and then go out. When calibration mode has been successfully started, all four LEDs remain lit.

To start the calibration of the open position, briefly press the BT (Bluetooth) button once. Two of the four LED indicators remain lit.

Use the control buttons on the Aqua DCB Controller or the button on the remote control to adjust the position of the opened pool cover. The LED indicators go off and indicate the current movement of the pool cover.

To confirm the open position and continue calibrating, briefly press the BT (Bluetooth) button. The next two of the four LED indicators remain lit.

Use the control buttons on the Aqua DCB Controller or the button on the remote control to adjust the position of the closed pool cover. The LED indicators go off and indicate the current movement of the pool cover.

Briefly press the BT (Bluetooth) button to confirm the closed position. The four LED indicators turn on and off sequentially, and if the calibration has been successfully stored in memory, all four remain lit.

Briefly press the BT (Bluetooth) button to exit calibration mode. The four LED indicators go out and the LED indicator showing the closed position of the pool cover comes on.

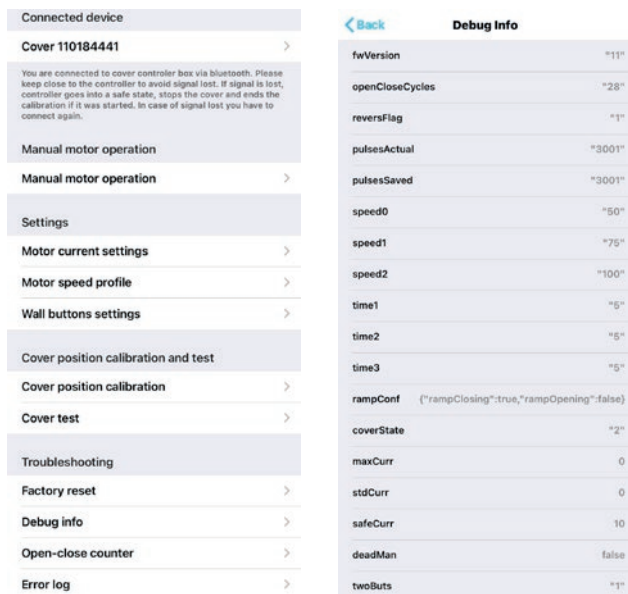
The pool cover is now ready for normal use.

Operating the pool cover with connected buttons

Once calibration is complete, your Pool Cover Controller is ready for use. Use the connected button(s) to open and close the pool cover.

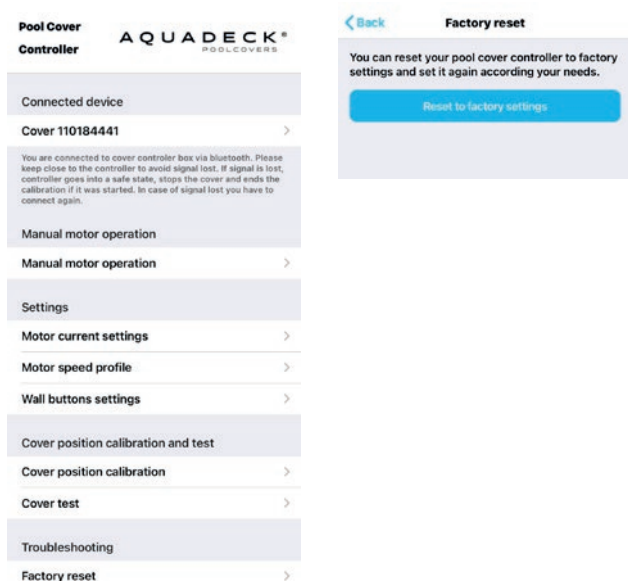
Troubleshooting info

The Aqua DCB Controller provides real-time access to live data, allowing you to monitor pool cover status and performance. If you encounter problems or if the pool cover does not work the way you want, you can take a screenshot of this data and share it with the pool cover manufacturer to get comprehensive help and assistance. By providing the manufacturer with detailed information on the current status of the pool cover, you can get targeted and specific support to address any problems or defects.



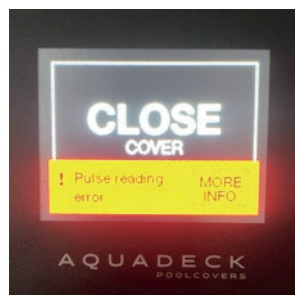
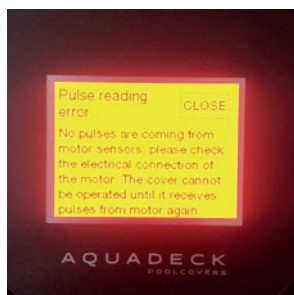
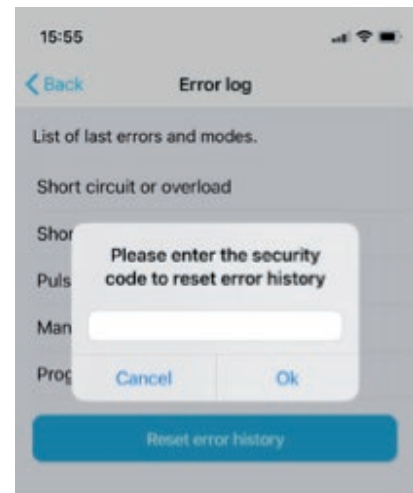
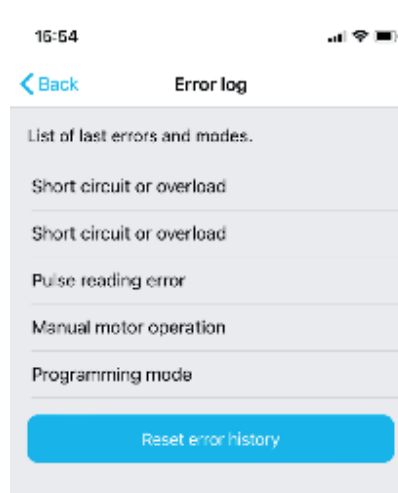
Reset to factory settings

The reset function allows you to reset the device to factory settings by erasing all custom configurations and user data. Performing a reset restores the device to the original state it was in upon delivery from the factory. To reset the factory settings, go to the device's settings menu, find the "Factory Reset" option and follow the on-screen instructions.



Error log

Use service code 5005 to reset the log.

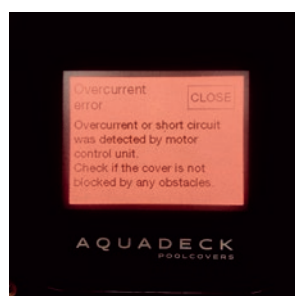
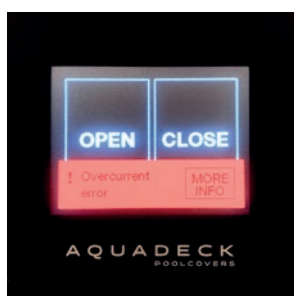


ERROR MESSAGE: PULS READING ERROR

1. Problem with sensors
2. Brakes sticking
3. 24 Volt circuit interrupted

RESOLUTION:

1. Swap sensor wires
2. Connect it at 24 V
3. Break in wire or loose



ERROR MESSAGE: OVERCURRENT ERROR

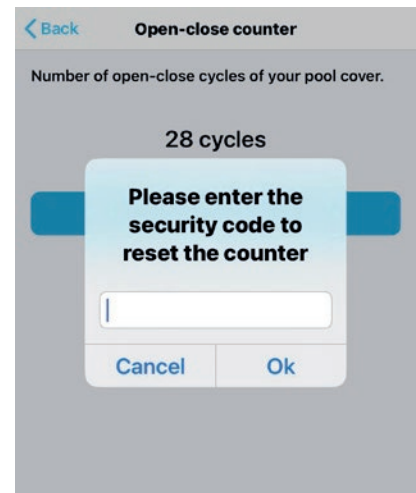
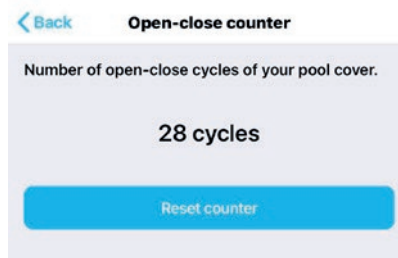
1. Current (amp) too high or more than set

RESOLUTION:

1. Short circuit 24 volts or brakes slip or set higher value max 19.9 A

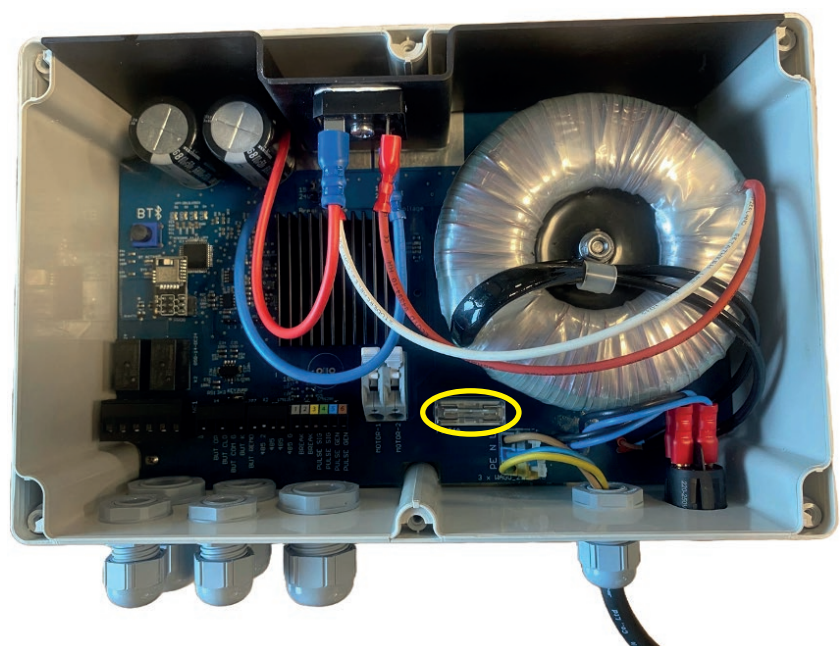
Reset counter

Use service code 5005 to reset the counter.



Replacing a fuse

If the Aqua DCB Controller fails, check the device's fuse. The fuse T4A is located in the bottom of the Pool Cover Controller next to the power switch.



Customer appendix abridges manual

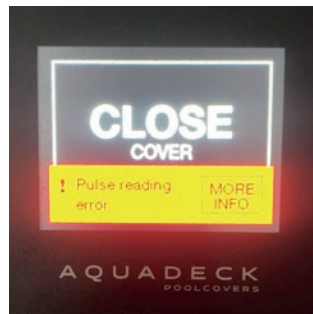
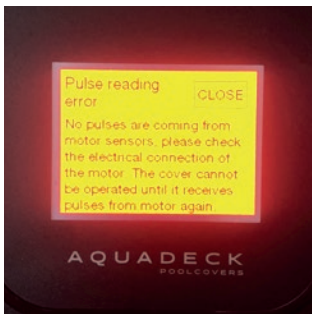
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The security code is **2734**.

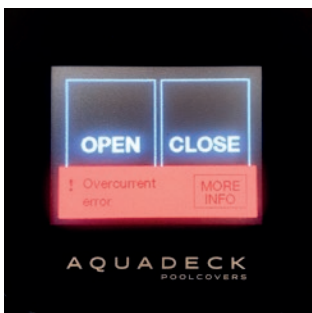


Error messages



ERROR MESSAGE: PULS READING ERROR

1. Problem with sensors
2. Brakes sticking
3. 24 Volt circuit interrupted



ERROR MESSAGE: OVERCURRENT ERROR

1. Current (amp) too high or more than set

POOL BUILDER:

CONTACT:

USER GUIDE

AQUA-DCB

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