Quick troubleshooting guide

DEL

Troubleshooting
UNIBOX Control Box Unicum Motor

CF GROUP
FRANCE

SUMMARY

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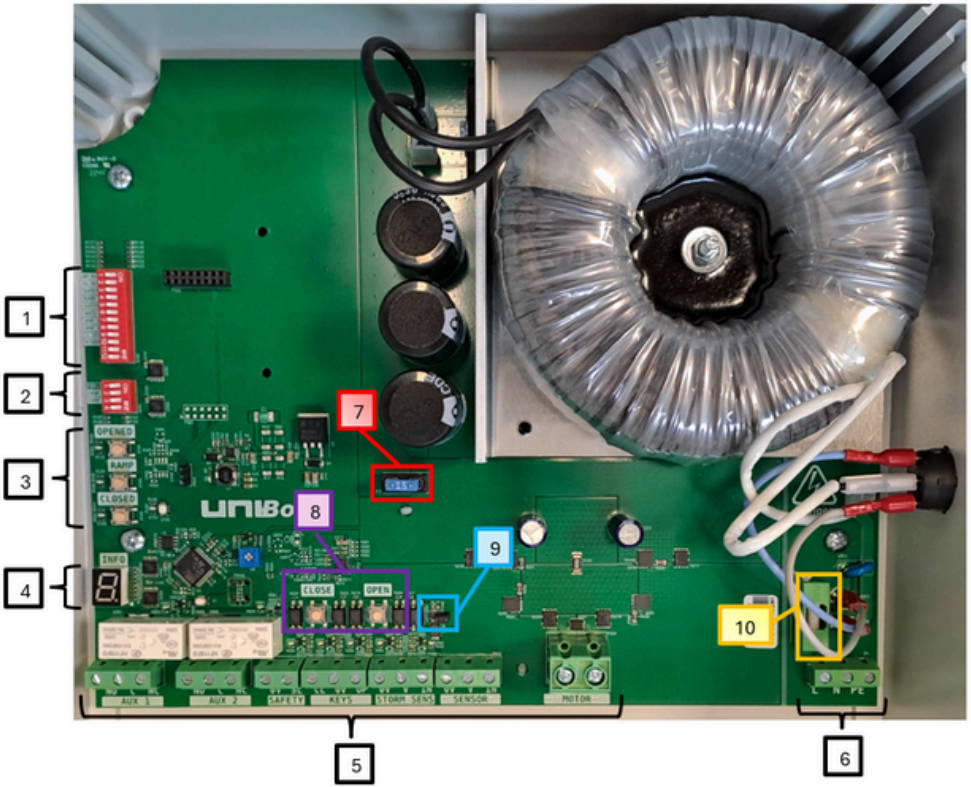
UNIBOX CONTROL BOX

General overview



1-DIP Switch for enhanced functionalities

2- DIP Switch for FORCAGE and sensor arrangement

3- Programming controls

4- Alarm indication

5- Connection terminals

6-230Vac mains terminal block

7- Motor protection fuse

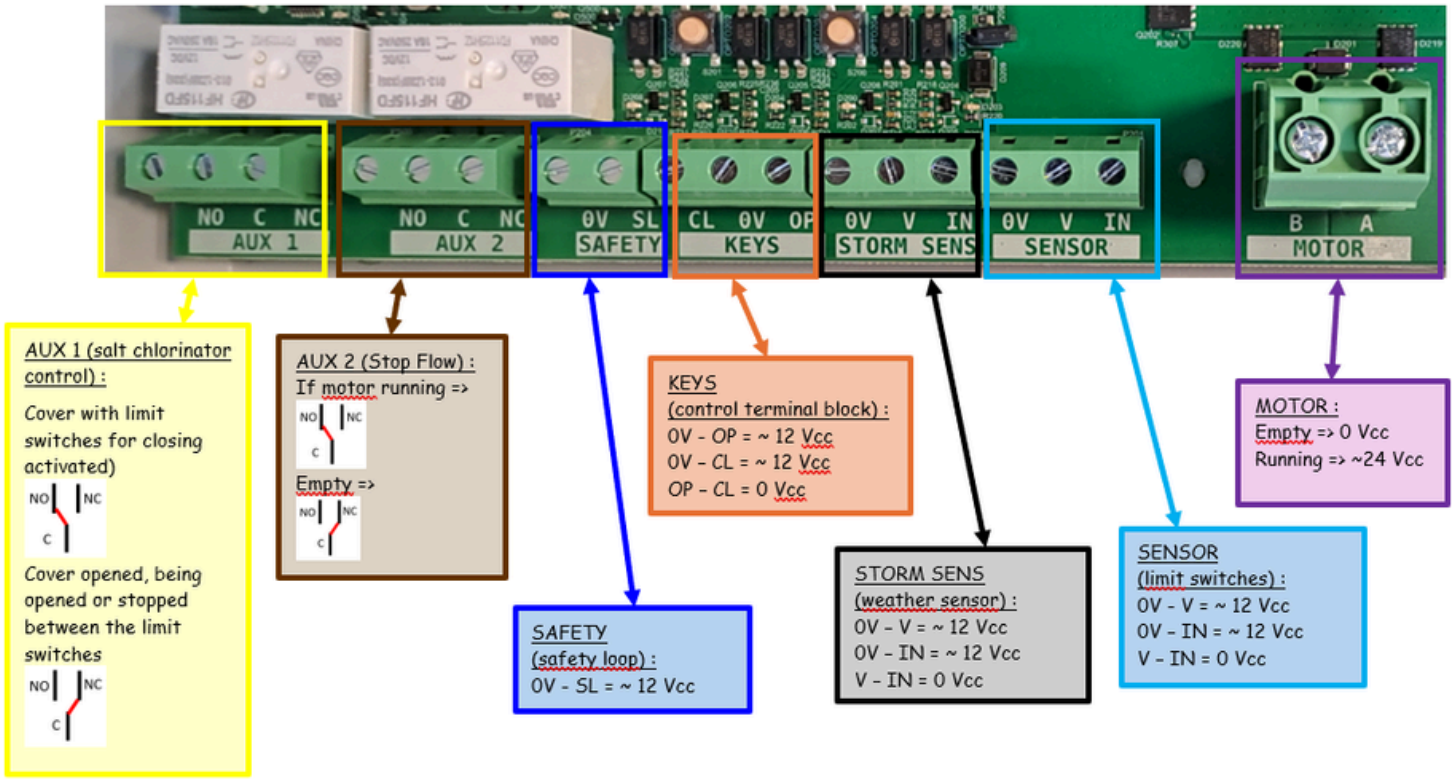
8- Guide control switches

9- Jumper for the management of inductive sensors

10 - Control box protection fuse

UNIBOX CONTROL BOX

Connection terminal voltages



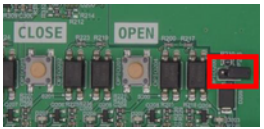
UNIBOX CONTROL BOX

Motor connection based on sensor type

2-wire limit switch motor sensor
(mechanical sensor)

3-wire limit switch motor sensor
(inductive sensor)

Ensure the adjustment of the jumper pinout (index 9 on page 3).

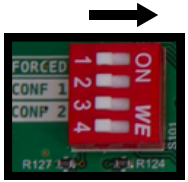


REGULATING THE ROTATIONAL DIRECTION AND SETTING THE LIMIT SWITCHES

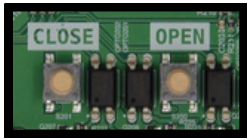
Before modifying the limit switches, ensure that the motor's rotational direction is consistent.

Control of rotational direction

1. Switch the “FORCED” DIP-switch to the ON position.



2. Check that the cover opens upon pressing the “OPEN” button and closes when the “CLOSE” button is activated.

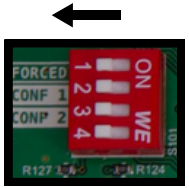


If this is not the situation, swap the two power supply wires at the "MOTOR" terminal block and check to ensure they are operating properly.

3. Verify the consistency of the wiring with the selected control system.

If necessary, swap the positions of the two wires "CL" and "OP" on the "KEYS" terminal block, and then check to ensure they are operating correctly.

After finishing, make sure to switch the “FORCED” DIP-switch back to the OFF position.



Adjusting the end positions

ATTENTION: To modify the end positions, the cover must be operated EXCLUSIVELY using the “OPEN” or “CLOSE” buttons, or through the key switch or Wi-key receiver.
Avoid using the Wi-key emitter or radio device.

1. Hold down the “OPENED” button until the green LED next to it lights up.

2-Open the cover to the desired position using the key switch or the “OPENED” button.

3-Press the “OPENED” button again; the green LED will turn off, indicating that the “pool open” position has been successfully saved.

4-Press and hold the "CLOSED" button until the nearby green LED lights up.

5-Open the cover to the desired position using the key switch or the “CLOSED” button.

6-Press the “CLOSED” button once more; the green LED will turn off, and the “pool closed” position will be recorded.

7. The procedure has been completed, and the end stops have been programmed.

LIST OF DEFECTS

Faults are displayed on the INFO screen.

0	Card initialization error
1	Limit switch programming malfunction
2	The motor is neither improperly wired nor damaged.
3	Malfunctioning sensor
4	Tripped fuse
7	Anti-tear alarm has been activated; please inspect the straps.
8	Engine overburdened

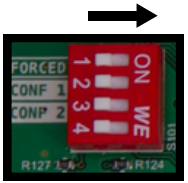
DEFAULT 0: Card initialization error

Symptom

Upon powering up the card, fault 0 is displayed at the conclusion of the initialization process.

Troubleshooting steps

1. Power down the box and then disconnect all wires, retaining only the 230Vac power supply.
2. Activate the “FORCED” DIP-switch.



3. Reactivate the box.

If the problem persists, consider replacing the box.

FAULT 1: Error in limit switch programming

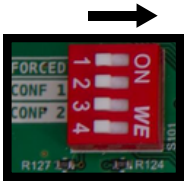
Symptom

When configuring the limit switches, fault 1 is displayed.

Troubleshooting steps

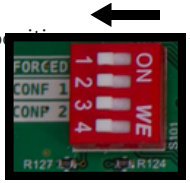
1. Deactivate the box.

2. Activate the “FORCED” DIP-switch.



3. Reactivate the box.

4. Switch the “FORCED” DIP-switch to the OFF position.



Disconnect the wires from the SENSOR terminals and measure the voltages (see the description above for guidance).

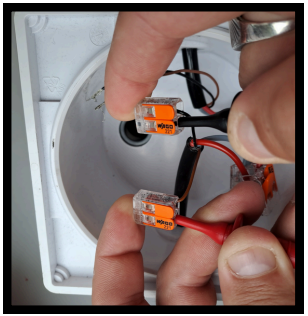
If the voltages do not match, it indicates a fault in the power supply of the limit switch circuit; you should replace the box.

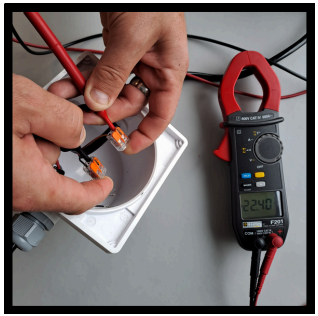
FAULT 1: Error in limit switch programming

Reconnect the sensor wires inside the box, then disconnect the motor sensors (the brown and black wires) from the junction box.

Next, measure the voltage at the wires connected to the SENSOR terminal coming from the box. It should read around 12VDC.

If the test does not pass, the damaged cable will need to be replaced.





FAULT 1: Error in limit switch programming

Check the continuity of the engine sensor (multimeter setting:) by inspecting the small brown and black wires while the engine is running. You should hear a sequence of alternating beeps.

If the beep is either constant or nonexistent, it signals a problem with the motor's internal sensor.
As a result, it will be necessary to replace the motor.

8. Consider reprogramming the limit switches.

If the problem arises again, it suggests there is a flaw in the box software.
Make arrangements to replace the box.

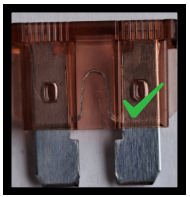
FAULT 2: The motor is either improperly wired or damaged.

Symptom

During programming or regular operation, fault 2 is triggered.

Troubleshooting steps

1. Verify the continuity of the automotive fuse.


If the fuse is defective, replace it after verifying the continuity of the new fuse.

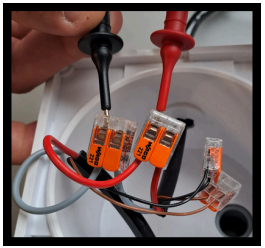
Turn on the “FORCED” DIP switch by switching it to the ON position. Perform an opening or closing operation using the control system, then measure the DC voltage at the MOTOR terminal
NOTE: this reading will only be available for a short time before alarm 2 reactivates.

If the voltage displays zero, check the control's functionality (see page 6) and perform the measurement again.

FAULT 2: Motor is improperly wired or damaged

1. Unplug the two red and gray wires from the motor cable, then check the DC voltage on the two power wires originating from the junction box. The voltage should be between 27 and 30 VDC.

Note: This reading will only be visible for a short time before alarm2 reactivates.



If the voltage measurement shows zero, you should replace the power cable that links the control box to the junction box.

If the voltage reads correctly, then the motor's power is faulty; it's time to replace the motor.

FAULT 3: Malfunctioning sensor

Symptom

During the operation of the cover, the motor stops and presents this alarm 3.

Troubleshooting steps

1. Conduct the same tests as those for DEFECT 1.

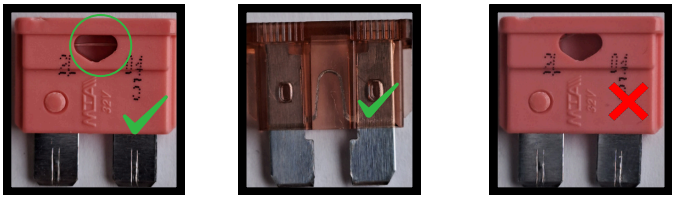
FAULT 4: Burnt fuse

Symptom

The motor fails to start, and the display indicates fault 4.

Troubleshooting steps

1. Control the continuity of the automotive fuse.



If the fuse is defective, replace it after verifying the continuity of the new fuse.

FAULT 7: Anti-tear alarm has been activated.

Symptom

The motor operates for a few seconds before halting, and the box displays fault 7.

Troubleshooting steps

1. Ensure that the straps of the safety kits are disengaged and that the cover is clear of any obstructions.
   Try & open the cover once more.

If the fault reoccurs, deactivate the “ANTI-S” DIP switch.

2. Try & open the cover once more.

If a new alarm is triggered, please refer to the corresponding fault.

FAULT 8: Motor Overload

Symptom

The motor stops operating during a maneuver, and the control box displays the fault n°8.

Troubleshooting steps

1. Examine the condition of the junction box (oxidation, moisture, connectors).

   If necessary, please revise it accurately.

2. Check that the section of the power cable from the control box to the junction box is correct.

   Reminder:
   Minimum cable size of 4mm² for lengths up to 15m,
   minimum cable size of 6mm² for lengths from 15 to 25m
   minimum cable size of 10mm² for lengths from 25 to 50m.

   If the installed section does not meet compliance standards, replace it with the appropriate wire section.

3. Connect a new aerial cable and attempt again.

   If the alarm reactivates, replace the motor.

ADDITIONAL PROBLEMS

The installation may not function properly without any alerts appearing on the INFO display.

Potential Problem #1

Upon activating the main switch, the box fails to initialize.

Cause(s)

The AC circuit within the box is not receiving power.

Troubleshooting steps

1. Check the supply voltage at the L/N/PE terminal block of the box.

   If the voltage is not 230Vac, control it upstream of the box.

2. Verify the continuity of the ceramic power fuse.

   Replace the fuse. If this does not function, replace the control box.

ADDITIONAL PROBLEMS

The installation may not function properly without any alerts appearing on the INFO display.

Potential problem #2

After initial start-up, the board initialized properly, the motor wiring is accurate; however, the motor does not operate.

Cause(s)

The box is neither in Force mode nor is there any limit switch programming currently in progress or recorded.

Troubleshooting steps

1. Follow the instructions for "Controlling the direction of rotation and programming the limit switches (refer to pages 6 and 7)."

If the box remains unresponsive after completing the two steps, please proceed to replace it.

ADDITIONAL PROBLEMS

The installation may not function properly without any alerts appearing on the INFO display.

Potential Problem #3

The motor operates solely in one direction.

Cause(s)

This situation may arise from either jammed slats or a problem with the command.

Troubleshooting steps

1. Ensure that there are no obstructions hindering the movement of the slats in either direction.

   If a foreign object is present, remove it.

2. Carry out the rotation direction verification step (refer to page 6).

   If the fault continues, replace the control box.

3. Detach the wires from the “KEYS” terminal block, then create a shunt between the 0V/CL terminals and then between the 0V/OP terminals.

   If the cover operates, check the control device and the wiring, and replace the defective component.

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If you are unable to solve the issue, please reach out to our Technical Support Department.

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