

Comunello fort00

Comunello FORT 500 Sliding Gate Automation System User Manual

Model: **fort00**

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Comunello FORT 500 Sliding Gate Automation System. Please read these instructions carefully before beginning any installation or operation procedures. Keep this manual for future reference.

2. KEY FEATURES

- **Integrated Control Unit:** Features a built-in control unit and receiver for simplified programming and diagnostics, including LED function setup and trim adjustment.
- **Robust Mechanics:** Equipped with precision-engineered metal transmission gears and motor support bearings for quiet and reliable operation, even under full load.
- **Enhanced Safety:** The non-reversible motor design protects the gate from accidental or intentional force. An easy-to-use manual emergency release mechanism with a key and aluminum handle is included.
- **Flexible Limit Switches:** Available with mechanical or magnetic limit switches. Features programmable automatic/semi-automatic limit switch functions, a timer, and speed reduction capabilities.
- **Durable Design:** Engineered for long-term durability and optimal performance in all weather conditions, ensuring maximum safety and reliability.
- **High Capacity:** Supports gates with a maximum weight of 500 kg.
- **Power Supply:** Operates on 230 Volts.

3. SYSTEM COMPONENTS

The Comunello FORT 500 system typically includes the following components. Please verify your package contents against this list.



Image: Main motor unit for the Comunello FORT 500 sliding gate system. This unit houses the motor, control board, and receiver.



Image: View of the internal gear mechanism of the Comunello FORT 500 motor unit, highlighting the robust metal transmission gears.



Image: A four-button remote control for operating the gate. This device allows for wireless control of the gate's opening and closing functions.



Image: Two photocell sensors. These sensors detect obstructions in the gate's path, enhancing safety by preventing the gate from closing on objects or people.



Image: A signal light (flash light). This light flashes during gate operation to alert pedestrians and vehicles of the gate's movement.

Note: Metal racks for the sliding gate are sold separately and must be selected based on the specific length of your gate.

4. INSTALLATION

Installation of the Comunello FORT 500 system requires electrical and mechanical expertise. It is strongly recommended to contact a qualified professional for installation to ensure proper functioning and safety. Installation costs are not included with the product.

4.1 Mounting the Motor Unit

The motor unit should be securely mounted on a stable, level surface adjacent to the gate. Ensure

adequate clearance for the gate's movement and access for maintenance.



Image: Dimensional drawing of the Comunello FORT 500 motor unit, showing height, width, and depth measurements for installation planning.

Height and level adjustments can be made using available installation accessories to ensure optimal alignment with the gate rack.

4.2 Electrical Connections

Connect the system to a 230V power supply. All electrical connections must comply with local regulations and be performed by a licensed electrician. Refer to the wiring diagram provided in the separate technical manual for detailed instructions.

4.3 Photocell and Signal Light Installation

Install the photocell sensors on opposite sides of the gate opening, ensuring they are aligned and free from obstructions. The signal light should be mounted in a visible location to alert users of gate operation.

5. OPERATING INSTRUCTIONS

5.1 Remote Control Operation

Use the provided remote control to open and close the gate. Pressing a programmed button will initiate the gate's movement. A second press may stop the gate, depending on programming.

5.2 Manual Emergency Release

In case of power failure or system malfunction, the gate can be operated manually using the emergency release mechanism.

1. Locate the emergency release keyhole on the motor unit.
2. Insert the provided key and turn it to unlock the mechanism.
3. Pull the aluminum handle to disengage the motor, allowing the gate to be moved by hand.
4. To re-engage, push the handle back into place and turn the key to lock.



Image: Close-up view of the manual emergency release mechanism on the motor unit, showing the keyhole and aluminum handle.

5.3 Programming Limit Switches and Timer

The control unit allows for programming of automatic/semi-automatic limit switches, a timer for automatic closing, and speed reduction settings. Refer to the control unit's specific programming guide for detailed steps.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Comunello FORT 500 system.

- **Cleaning:** Keep the motor unit, photocells, and gate rack clean and free from debris. Dust and dirt can affect performance.
- **Lubrication:** Periodically check and lubricate moving parts of the gate and motor gear as recommended in the technical manual.
- **Inspection:** Regularly inspect all components for signs of wear, damage, or loose connections. Pay particular attention to the gate's movement, ensuring it slides smoothly without excessive friction.
- **Photocell Test:** Periodically test the photocells by obstructing the beam while the gate is closing to ensure they stop or reverse the gate's movement.

For complex maintenance or repairs, contact a qualified service technician.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your FORT 500 system. For more complex problems, consult a professional technician.

| Problem | Possible Cause | Solution |
|--|--|--|
| Gate does not respond to remote control. | <p>Remote control battery is dead.</p> <p>Remote control is out of range.</p> <p>Photocells are obstructed or misaligned.</p> <p>Power supply issue to the motor unit.</p> | <p>Replace remote control battery.</p> <p>Move closer to the gate.</p> <p>Clear any obstructions and check alignment of photocells.</p> <p>Check power connection and circuit breaker.</p> |
| Gate stops or reverses unexpectedly. | <p>Obstruction detected by photocells.</p> <p>Obstruction in the gate's path.</p> <p>Limit switches are incorrectly set.</p> | <p>Clear photocell path.</p> <p>Remove any physical obstructions.</p> <p>Reprogram or adjust limit switches.</p> |
| Motor makes unusual noise. | <p>Lack of lubrication.</p> <p>Worn gears or bearings.</p> <p>Foreign object in the mechanism.</p> | <p>Lubricate moving parts.</p> <p>Inspect gears and bearings for damage (contact technician if severe).</p> <p>Inspect and remove any foreign objects.</p> |

8. SPECIFICATIONS

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|-----------------------------|------------------|
| Manufacturer | Comunello |
| Model Number | fort00 |
| Maximum Gate Weight | 500 kg |
| Operating Voltage | 230 Volts |
| Power Consumption | 280 Watts |
| Item Weight | 9.9 kg |
| Color | Black and Silver |
| Batteries Included | No |
| Batteries Required | No |
| ASIN | B09N2M252S |
| First Available Date | December 5, 2021 |

9. IMPORTANT SAFETY INFORMATION

Always prioritize safety when installing, operating, or maintaining the gate automation system. Failure to follow safety instructions can result in serious injury or property damage.

- Ensure all installation steps are performed by qualified personnel.
- Keep children and pets away from the gate area during operation.
- Do not attempt to stop a moving gate by hand.
- Regularly check safety devices like photocells for proper function.
- In case of emergency, use the manual release to operate the gate.
- Disconnect power before performing any maintenance or repairs.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or to arrange professional installation, please contact Comunello customer service or your authorized dealer. Refer to the product packaging or Comunello's official website for contact details.

Legal Disclaimer: Installation costs are not included with the product purchase. Please contact us for installation services.