

Hormann 4510770

Hormann EcoStar Portronic-D 5000 Two-Leaf Gate Motor User Manual

Model: 4510770 | Brand: Hormann

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Hormann EcoStar Portronic-D 5000 Two-Leaf Gate Motor. Designed for single and double-leaf entrance gates, this motor offers high security and quiet operation. Please read this manual thoroughly before installation and use to ensure safe and efficient operation.

2. SAFETY INFORMATION

Always prioritize safety during installation, operation, and maintenance. Failure to follow these instructions may result in injury or damage to the product.

- Installation must be performed by qualified personnel in accordance with local electrical and safety regulations.
- Ensure the power supply is disconnected before any installation, maintenance, or repair work.
- Do not allow children to play with the gate motor or its controls.
- Keep the area around the gate clear of obstructions during operation.
- The gate stops automatically in case of sudden obstacles. However, always exercise caution.
- A mechanical stop for the final gate position is mandatory for gates up to 5m.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- 1 x Hormann EcoStar Portronic-D 5000 Swing Gate Motor
- 2 x RSC 2 Hand Transmitters
- Mounting Hardware (screws, brackets, etc. - specific items may vary, refer to packing list)
- Instruction Manual (this document)



Image 3.1: Hormann Portronic-D 5000 Gate Motor and Gate Section. This image shows the main gate motor unit attached to a white gate leaf, illustrating its compact design and how it integrates with the gate structure.

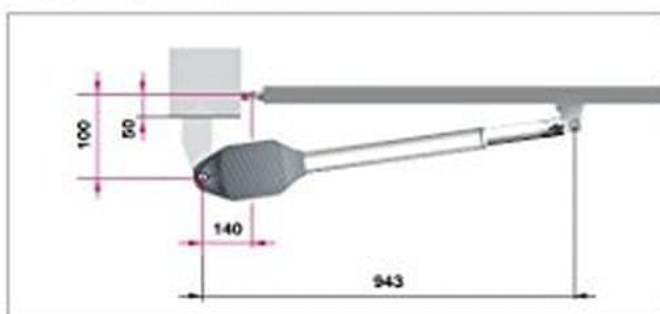
4. SETUP AND INSTALLATION

Careful installation is crucial for the proper functioning and longevity of your gate motor. Follow these steps precisely.

4.1 Mounting the Motor

The motor should be mounted securely to both the gate post and the gate leaf. Refer to the technical drawing for precise measurements and mounting points.

Hinged gate operator PORTRONIC-D 5000

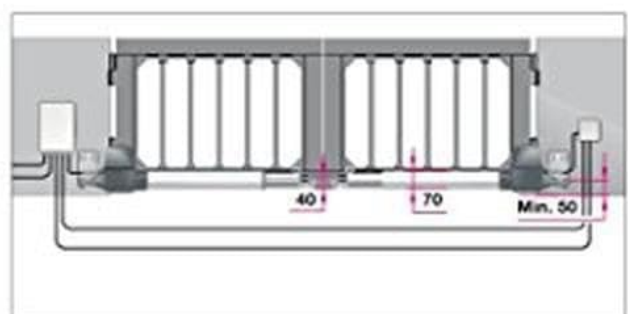


Mains connecting lead
230 V, NYY 3 x 1.5² (on-site)

Motor cable
Connecting lead up to 10 m
NYY 5 x 1.5² (on-site)

Electric lock connecting lead
NYY 3 x 1.5² (on-site) underground
H07RN-F 2 x 1² on the door leaf

Additional connection cable
All cables underground NYY, e.g. 5 x 1.5²



Lay all cables separately!

Image 4.1: Technical Dimensions and Wiring Diagram. This image provides critical measurements for mounting the gate operator, including distances from the gate hinge and required clearances. It also illustrates the electrical connections for the main power, motor cables, electric lock, and additional control cables for a dual-leaf gate setup.

- Determine Mounting Position:** Use the provided technical drawing (Image 4.1, left side) to identify the

optimal mounting points on your gate post and gate leaf. Pay close attention to the "Abstand vom Tor- und Antriebsdrehpunkt" (Distance from gate and drive pivot point) and "Abstand des Tordrehpunkts zur Montageplatte" (Distance of gate pivot point to mounting plate) for correct alignment.

2. **Secure Brackets:** Attach the mounting brackets firmly to the gate post and gate leaf using appropriate fasteners. Ensure they are level and aligned according to the dimensions.
3. **Attach Motor:** Connect the gate motor to the secured brackets. Ensure the motor arm moves freely and without obstruction throughout the gate's full range of motion.
4. **Install Mechanical Stops:** For gates up to 5m, a mechanical stop is mandatory for the final open and closed positions. Install these stops securely on the ground or gate frame to prevent over-travel.

4.2 Electrical Connections

All electrical work must be performed by a certified electrician. Refer to the wiring diagram (Image 4.1, right side) for correct connections.

1. **Mains Connection:** Connect the main power supply (230 V, NYY 3 x 1.5²) to the control unit. Ensure proper grounding.
2. **Motor Cables:** Connect the motor cables (NYY 5 x 1.5²) from the control unit to each gate motor. For distances up to 10m, use the specified cable type.
3. **Electric Lock (Optional):** If using an electric lock, connect its cables (NYY 3 x 1.5² underground, H07RN-F 2 x 1² on the door leaf) to the designated terminals on the control unit.
4. **Additional Control Cables:** For any additional control devices (e.g., photocells, keypads), connect their cables (e.g., NYY 5 x 1.5² underground) to the appropriate terminals.
5. **Cable Management:** Lay all cables separately to avoid interference and ensure they are protected from damage and weather.

5. OPERATING INSTRUCTIONS

Your Hormann gate motor is designed for convenient and secure operation.

5.1 Initial Programming

After installation, the gate motor needs to be programmed to learn the gate's travel limits. Refer to the control unit's specific programming guide for detailed steps. This typically involves:

- Setting the open and closed end positions.
- Adjusting force limits and speed if applicable.
- Pairing the RSC 2 hand transmitters.

5.2 Using the Hand Transmitters (RSC 2)

The included RSC 2 hand transmitters allow for convenient remote operation of your gate.



Image 5.1: Remote Gate Operation. This image illustrates the convenience of operating the gate remotely using the hand transmitter, allowing a vehicle to enter or exit without manual intervention.

- Press the designated button on the RSC 2 transmitter to open or close the gate.
- Pressing the button again during operation will stop the gate.
- **Pedestrian Passage:** The system allows for partial opening of one gate leaf for pedestrian access. Consult your control unit's manual for programming this feature.

6. MAINTENANCE

Regular maintenance ensures the long life and reliable operation of your gate motor.

- **Monthly:** Inspect the gate and motor for any signs of wear, damage, or loose connections. Clean any debris from the motor housing and gate tracks.
- **Quarterly:** Check the alignment of the gate leaves and ensure they move smoothly without excessive friction. Lubricate moving parts as recommended by the manufacturer (refer to the full technical manual).
- **Annually:** Have a qualified technician perform a comprehensive inspection of the motor, electrical connections, and safety features.
- Ensure the mechanical stops are secure and functioning correctly.

7. TROUBLESHOOTING

If you encounter issues with your gate motor, refer to the following common problems and solutions. For complex issues, contact a qualified technician.

Problem	Possible Cause	Solution
Gate does not respond to transmitter.	Dead transmitter battery; transmitter out of range; power outage; motor in manual mode.	Replace battery; move closer to gate; check power supply; disengage manual release.

Problem	Possible Cause	Solution
Gate stops unexpectedly during operation.	Obstruction in gate path; safety sensor triggered; motor overheating.	Remove obstruction; check and clean safety sensors; allow motor to cool down.
Gate opens partially or not fully.	Incorrect limit settings; mechanical obstruction; low power.	Reprogram limit settings; check for obstructions; verify power supply.

8. SPECIFICATIONS

Key technical specifications for the Hormann EcoStar Portronic-D 5000 Gate Motor.

- **Model:** 4510770 (Portronic D 5000)
- **Brand:** Hormann
- **Maximum Traction Force:** 800 N
- **Gate Type:** For 2-leaf swing gates
- **Max Gate Size:** Up to 5 m (2 x 2.50 m per leaf)
- **Required:** Mechanical stop for final gate position
- **Operation:** Synchronous opening for same-width gate leaves, partial opening for pedestrian passage
- **Included Transmitters:** 2 x RSC 2 Hand Transmitters
- **Material:** Aluminum
- **Dimensions (L x W x H):** Approximately 200 x 200 x 0.01 cm (Motor unit dimensions may vary, this refers to package/overall system)
- **Weight:** 13.28 kg
- **Power Supply:** 230 V (refer to installation for specific wiring)
- **Country of Origin:** Germany

9. WARRANTY AND SUPPORT

Hormann products are manufactured to high quality standards. For warranty information, please refer to the warranty card included with your product or visit the official Hormann website.

For technical support, spare parts, or service inquiries, please contact your authorized Hormann dealer or customer service.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question