

INDEM M3002424.K00

InDeM VIVO 424 24V Sliding Gate Opener Kit Instruction Manual

Model: VIVO 424 | Brand: InDeM

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your InDeM VIVO 424 24V Sliding Gate Opener Kit. The VIVO 424 motor is designed for intensive use with sliding gates weighing up to 400 kg. It features a reliable and secure low-voltage 24V system, an integrated MV424 control unit, and advanced safety features.

Please read this manual thoroughly before beginning installation or operation. Keep it for future reference.

2. SAFETY INFORMATION

Your safety and the safety of others are extremely important. Follow all instructions and warnings in this manual to reduce the risk of injury or property damage.

- **Professional Installation Recommended:** Installation should ideally be performed by qualified personnel to ensure compliance with local regulations and safety standards.
- **Electrical Safety:** The system connects to a 230V mains supply via an internal transformer. Ensure the power supply is disconnected before any installation or maintenance work. All electrical connections must comply with local electrical codes.
- **Anti-Crushing Safety:** The MV424 control unit includes an obstacle detection system that reverses the gate's movement upon impact. Do not disable this feature. Regularly test its functionality.
- **Moving Parts:** Keep hands, feet, and clothing clear of the gate and motor's moving parts during operation.
- **Children and Pets:** Do not allow children or pets to play near the gate or operate the remote controls.
- **Emergency Release:** Familiarize yourself with the manual release mechanism to operate the gate during power outages.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your kit:

- 1 x InDeM VIVO 424 Motor
- 1 x MV424 Control Unit (integrated within the motor)
- 1 x Pair of InDeM MFX180 Photocells
- 1 x InDeM LUX LED Flashing Light (12/24/230V compatible)
- 2 x Hope 4-channel Remote Controls
- 1 x Ground Fixing Plate
- 1 x Mechanical Limit Switch Group (for opening and closing)
- 1 x Warning Sign
- 1 x Detailed Installation Manual (separate document)



Image 1: Overview of the InDeM VIVO 424 Sliding Gate Opener Kit, showing the motor, remote controls, photocells, and flashing light.



Image 2: Internal view of the InDeM VIVO 424 motor, showcasing the integrated MV424 control unit and mechanical components.

4. SPECIFICATIONS

Feature	Specification
Brand	INDEM
Model Reference	M3002424.K00
Power System	24V DC
Mains Connection	230V AC (via internal transformer)
Maximum Gate Weight	400 kg

Usage	Intensive
Control Unit	MV424 (integrated, 2-channel receiver, soft-move, obstacle detection, dip-switch/potentiometer programming)
Pignon Height (above ground)	80 mm
Motor Lubrication	Permanent lithium grease
Item Weight	7 Kilograms

5. SETUP AND INSTALLATION

The installation process involves mechanical mounting, electrical wiring, and programming. Refer to the detailed installation manual included in your kit for specific diagrams and step-by-step instructions. Below is a general overview:

- Site Preparation:** Ensure the gate track is clean and clear. Prepare a stable concrete base for the motor's ground fixing plate.
- Motor Mounting:** Securely attach the motor to the ground fixing plate, ensuring the pignon is correctly aligned with the gate's rack at 80 mm above ground.
- Rack Installation:** Install the gate rack onto the sliding gate, ensuring proper engagement with the motor's pignon.
- Limit Switches:** Install the mechanical limit switches at the desired open and closed positions of the gate.
- Photocells Installation:** Mount the InDeM MFX180 photocells on opposite sides of the gate opening, ensuring they are aligned and wired correctly to the MV424 control unit. These are crucial for obstacle detection.
- Flashing Light Installation:** Install the InDeM LUX LED flashing light in a visible location and connect it to the control unit.
- Electrical Connections:** Connect the 230V mains power supply to the motor's internal transformer. Wire all accessories (photocells, flashing light) to the MV424 control unit using the removable color terminals.
- Initial Programming:** Power on the system. Use the dip-switches and potentiometers on the MV424 control unit to set parameters such as gate travel limits, force, and remote control pairing. Refer to the specific programming section in the detailed manual.



Image 3: The InDeM VIVO 424 motor with its drive gear exposed, illustrating the mechanism that engages with the gate rack.

6. OPERATING INSTRUCTIONS

Once installed and programmed, the InDeM VIVO 424 system is designed for user-friendly operation.

- **Remote Control:** Use the provided Hope 4-channel remote controls to operate the gate. Typically, one button is programmed for open/stop/close functionality.
- **Open/Close Cycle:** Pressing the programmed button will initiate the gate's movement. A second press during movement will stop the gate. A third press will reverse its direction.
- **Soft-Move Function:** The motor features a soft-start and soft-stop function, ensuring smooth acceleration and deceleration at the beginning and end of each cycle.
- **Obstacle Detection:** If an obstacle is detected by the photocells or the anti-crushing system during closing, the gate will stop and reverse its movement. During opening, it will stop.
- **Manual Release:** In case of a power failure or malfunction, use the key to unlock the manual release mechanism on

the motor. This allows you to open or close the gate manually. Remember to re-engage the motor after manual operation.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your InDeM VIVO 424 gate opener.

- **Monthly Checks:**

- Inspect the gate track and rack for debris or obstructions.
- Test the photocells by placing an object in their path during a closing cycle. The gate should stop and reverse.
- Check the flashing light for proper operation.
- Verify the manual release mechanism functions correctly.

- **Annual Checks:**

- Inspect all electrical wiring for signs of wear or damage.
- Check the motor housing for any signs of water ingress or damage.
- The motor's mechanical parts are permanently lubricated with lithium grease; no additional lubrication is typically required unless specified in the detailed manual.
- Ensure all mounting bolts and screws are tight.

- **Cleaning:** Keep the photocell lenses clean to ensure proper functionality. Clean the motor housing with a damp cloth; do not use abrasive cleaners or high-pressure water.

8. TROUBLESHOOTING

If you encounter issues with your gate opener, consult the detailed installation manual for specific troubleshooting steps and error codes. Here are some common issues and general solutions:

- **Gate Not Moving:**

- Check if the power supply is connected and active.
- Ensure the manual release is fully engaged.
- Verify remote control batteries are not depleted.
- Check for any physical obstructions in the gate's path or rack.

- **Gate Stops Unexpectedly:**

- An obstacle may have been detected by the photocells or the anti-crushing system. Clear the path.
- Check if the limit switches are correctly positioned and functioning.

- **Remote Control Not Working:**

- Replace remote control batteries.
- Re-pair the remote control with the MV424 control unit (refer to the detailed manual for pairing instructions).
- Ensure there is no interference blocking the signal.

- **Flashing Light Not Working:**

- Check the bulb/LED and its connections.
- Verify wiring to the control unit.

If problems persist, contact a qualified technician or InDeM customer support.

9. WARRANTY AND SUPPORT

Warranty information for the InDeM VIVO 424 24V Sliding Gate Opener Kit is typically provided with your purchase documentation. Please refer to these documents for details regarding warranty duration and terms.

For technical support, spare parts, or further assistance, please contact your authorized InDeM dealer or the manufacturer's customer service. Ensure you have your product model (VIVO 424) and reference number (M3002424.K00) available when seeking support.

ASK A QUESTION ABOUT THIS MANUAL

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