

WINGLOCK 900

OPERATING MANUAL

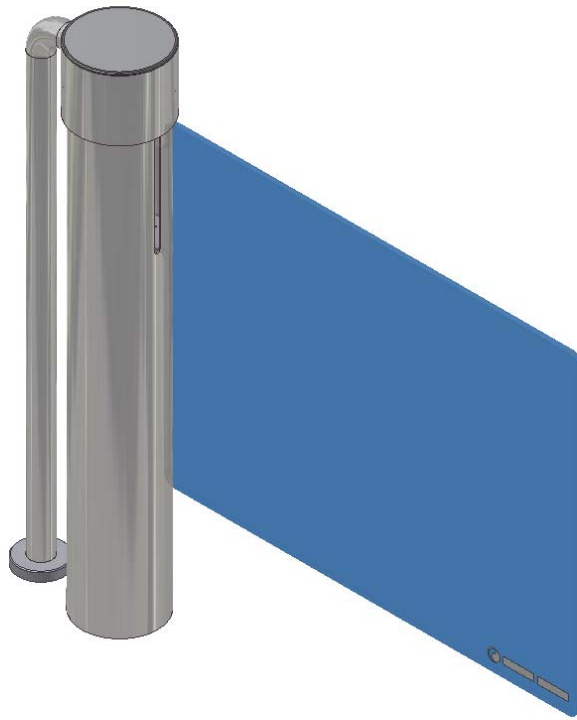


TABLE OF CONTENTS

1 INTRODUCTION 2

1.1 COPYRIGHT 2

1.2 SAFETY-ASPECTS 2

1.3 GENERAL INFORMATION 2

1.4 ABBREVIATIONS 2

1.5 SYMBOLS 3

2 OPERATING CONCEPT 4

2.1 STANDARD OPERATION 5

2.2 SECURITY 5

2.3 SAFETY 6

2.4 CONTROL PANEL (OPTION) 7

2.5 OTHER FEATURES 7

3 GENERAL AND TECHNICAL SPECIFICATIONS 8

3.1 GENERAL 8

3.2 DRIVE 8

3.3 CONTROL UNIT 8

4 MAINTENANCE 9

4.1 DAILY 9

4.2 WEEKLY 9

4.3 MONTHLY 9

4.4 ANNUALLY 9

5 TROUBLESHOOTING 10

5.1 MECHANICAL 10

5.2 ELECTRICAL 10

6 APPENDIX 11

1 Introduction

The Winglock 900 belongs to the range of security products of Boon Edam and offers an optimal security control. The Winglock 900 allows a fast and controlled access in two directions. The Winglock 900 fits most building interiors due to its neutral stainless steel and glass finishing.

1.1 Copyright

This manual was prepared and issued by Boon Edam Group Holding B.V. It is only supplied to the owner of the security product and to the approved agents of the Boon Edam Group.

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1.2 Safety-aspects

- The Winglock 900 is designed, tested and produced in accordance with strict international regulations.
- Correct operation is assured when regular maintenance is undertaken annually (subject to frequency of use).
- All work should be carried out by Boon Edam or an approved agent.
- Prior to operation, the manual should have been read.
- **Warning:**
Be aware and avoid contact with moving parts.
- If you have any queries regarding this manual, contact Boon Edam B.V.
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1.3 General information

This manual is intended for the owner of the Winglock 900 and gives information on:



- Operating the Winglock 900
- Maintenance
- Trouble shooting

1.4 Abbreviations

- | | | | |
|-------|----------------------|--------|----------------------------|
| • FI | Frequency Inverter | • PDA | Personal Digital Assistant |
| • LED | Light Emitting Diode | • IrDA | Infra red wireless link |

1.5 Symbols

The following symbols are used in this manual.

	<p>WARNING! Risk of personal injury.</p>
	<p>NOTE! The material may be damaged or the operation of the barrier affected.</p>

2 Operating concept

The Winglock 900 consists of a single column with a glass door wing. The frame is an option. The door wing is fixed to the centre column. The door wing turns on the axis of the centre column. The single gate design also provides a wide passage suitable for use by wheel chairs and trolleys. The door wing can revolve in either direction. All components are located in the centre column.

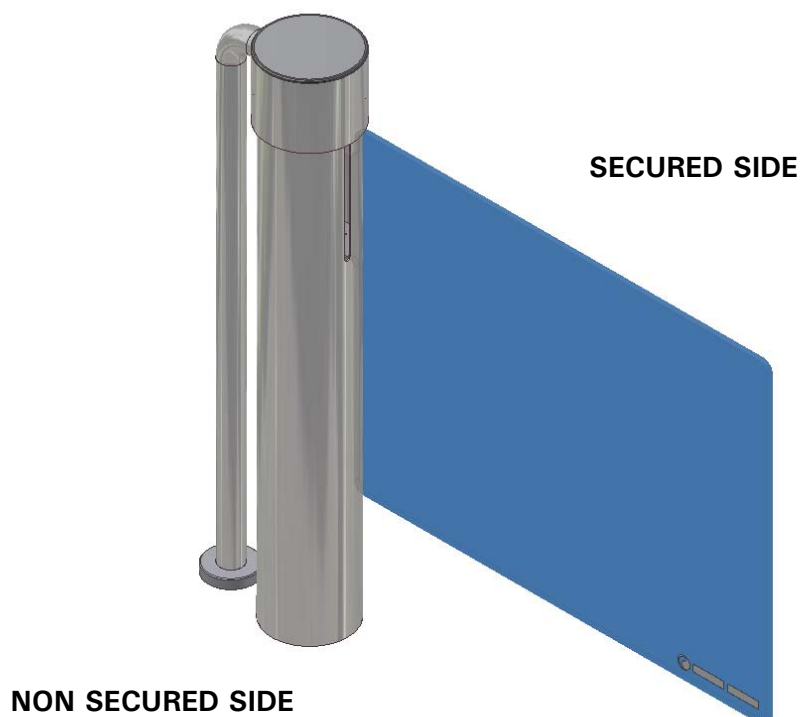


Figure 1 Winglock 900

The Winglock 900 is available with the option of an external control panel for remote operation. Additionally the Winglock 900 can be operated with an authorisation system for example a card reader or biometric system. When an authorisation is granted the Winglock 900 will always open in the walking direction. The door wing will close 3 seconds after reaching the open position (default value, adjustable). When the door wing is in the closed position, it will be locked.

The Winglock 900 is installed with the options as indicated on any drawing provided.

2.1 Standard operation

In the following operating descriptions a number of operating parameters are mentioned which can be adjusted to fully customise the operation to your requirements. Please note that only service engineers from Boon Edam or an approved agent are allowed to make changes to these settings.

2.1.1 One authorised person, entering / leaving

When an authorised person enters, the door wing will open away from the person to a position of 90 degrees (default value, adjustable). The door wing will then be locked in the open position. The door wing will close 3 seconds after reaching the open position (default value, adjustable).

When an authorised person leaves, the door wing will open away from the person to a position of 90 degrees (default value, adjustable). The door wing will then be locked. The door wing will close 3 seconds after reaching the open position (default value, adjustable).

When the "pulse in" or "pulse out" button is pressed continuously, the door wing will open away from the person and stay open as long as the button is pressed.

2.1.2 Multiple consecutive authorisations, interrupted by authorisation from opposite direction

When authorisation by means of a card reader or push button proceeds more quickly than persons passing the Winglock 900, a maximum of 6 (default value, adjustable between 1 and 10) authorisations will be kept in memory. Each authorisation has a duration of 3 seconds (adjustable). This means for example that a maximum of 9 seconds is available for 3 authorisations. The door wing will close after the total authorisation time has passed.

With authorisations from both sides the passing sequence will be completed in the order of authorising. This means that the first person to authorise will be allowed to pass first, and so on. Please note that the door wing will always open in the walking direction of the authorised person.

2.2 Security

When the door wing closes while a person is standing in the way, the door wing will stop. After five seconds (adjustable), the door wing will start to close slowly. When the door wing remains blocked the sequence of stopping and closing will be repeated. In this way the Winglock 900 will prevent piggybacking and stop unauthorised users from passing. While the door wing is closing slowly, all safety features remain operational. All authorisations will be reset and no new authorisations will be possible until the door wing is closed. When a fire alarm occurs during the blocking sequence, the sequence will be interrupted and the Winglock 900 immediately goes to its fire alarm position. The locked position also remains operational. The blocking action will generate an alarm on the optional external control panel.

2.3 Safety

Whatever the stationary position of the door wing, it will always be locked. This will prevent movement of the door wing by hand. The lock is released during movement.

2.3.1 Door wing jam protection

When the door wing closes while a person is standing in the way, the door wing will stop. After five seconds (adjustable), the door wing will start to close slowly. When the door wing remains blocked the sequence of stopping and closing will be repeated. In this way the Winglock 900 will prevent piggybacking and stop unauthorised users from passing. While the door wing is closing slowly, all safety features remain operational. All authorisations will be reset and no new authorisations will be possible until the door wing is closed. When a fire alarm occurs during the blocking sequence, the sequence will be interrupted and the Winglock 900 immediately goes to its fire alarm position. The locked position also remains operational.

2.3.2 Failsafe

In case of a power failure, the Winglock 900 can be operated manual. When power is restored, the door wing will return to its original position, close and lock. The Winglock 900 is then ready for normal operation. While the door wing is returning to its original position (reset), all safety features will temporarily be disabled.

**WARNING!**

No persons should stand in the Winglock 900 during the reset procedure, as all safety features are temporarily disabled.

2.3.3 Fire alarm

In case of a fire alarm, the door wing will open to the fire alarm position (90 degrees) in the outward direction (default setting, other direction can be selected). Once the fire alarm is deactivated, the door wing will close and lock. The Winglock 900 is then ready for normal operation. In case of a fire alarm all other safety features will be disabled. The fire alarm position always takes precedence over the locked position.

2.4 Control panel (option)

1. When the “pulse in” button is pressed, the door wing will open away from the person and one person will be able to pass the Winglock 900 and enter. When the “pulse in” button is pressed continuously, the door wing will open away from the person and stay open as long as the button is pressed.
2. When the “pulse out” button is pressed, the door wing will open away from the person and one person will be able to pass the Winglock 900 and leave. When the “pulse out” button is pressed continuously, the door wing will open away from the person and stay open as long as the button is pressed.
3. When the “lock” button is pressed, the door wing will be locked immediately. All authorisations will be lost. When the button is pressed again, the door wing will unlock and close.
- 4 & 5. Gives an optical and acoustic signal in case of an alarm situation, as described in the standard operation.

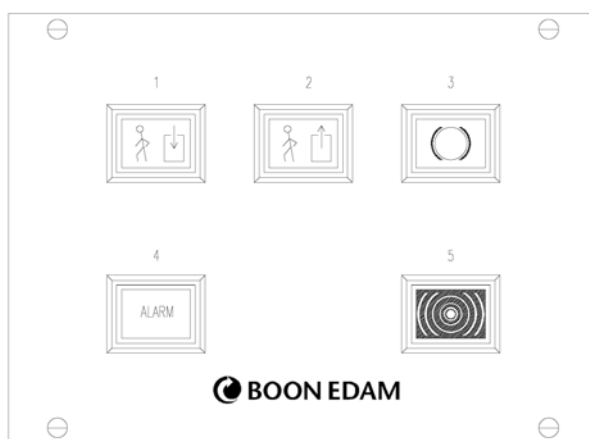


Figure 2 External control panel (option)

2.5 Other features

- Global reset. When the “pulse in” and “pulse out” buttons are pressed simultaneously for five seconds, the Winglock 900 will be reset. The Winglock 900 will then reposition after which it is ready for use. The locked position needs to be disabled. Switching the power off and then the power on will also reset the Winglock 900.



WARNING!

No persons should stand in the Winglock 900 during the reset procedure, as all safety features are temporarily disabled.

3 General and technical specifications

3.1 General

Application

- Suitable for offices (glass wing);
- Wheel chair clear passage width is a minimum of 991 mm;
- Any card reader is accessible to the disabled;
- Capacity:
 - Free exit: 30 persons per minute;
 - Controlled automated entry: 15 persons per minute.

Vandalism proof

- No protruding parts which may be damaged;
- Securely mounted to floor.

Combined use

- Arrangement in rows;
- Side-by-side arrangement.

3.2 Drive

The drive is specifically designed for the Winglock 900 and is installed in the column. The electric motor has the following advantages:

- Silent operation;
- For safety reasons the door wing can be stopped by hand;
- For security reasons the blocking of the door wing is detected.

3.3 Control unit

3.3.1 Programmable control unit

The control unit is located in the centre column. The heart of the control unit is a microcontroller. It controls the signals from, for instance, the card reader system and controls the operation of the Winglock 900. An infra red (IrDA) port is available for communication with a Personal Digital Assistant (PDA). This interface can be used for configuration and service purposes.

With the PDA the application for the control unit can be programmed, the settings in the software can be read and changed. The operational statistics of the Winglock 900 can be extracted and made visible. For maintenance purposes all relevant information can be accessed and made visible.

4 Maintenance



Switch off the power before carrying out maintenance work on the barrier.



Do not use water near the drive unit and control boxes.



This schedule may be used as a guideline for optimal maintenance of the Winglock 900.

4.1 Daily

Check the emergency/safety features and general operation of the Winglock 900.

4.2 Weekly

Cleaning stainless steel parts:

- Clean the parts with water and a sponge.
- Dry the parts using a clean cloth.
- Apply Stainless Steel Polish & Cleaner on all dry parts and polish using a dry, clean cloth.

4.3 Monthly

Cleaning stainless steel parts:

- Clean the parts with water and a sponge.
- Dry the parts using a clean cloth.
- Apply Stainless Steel Polish & Cleaner on all dry parts and polish using a dry, clean cloth.

4.4 Annually

The Winglock 900 needs to be serviced at least once a year. This service should be carried out by Boon Edam or by an approved agent.

5 Troubleshooting



Switch off the power before carrying out maintenance work on the barrier.



Parts should only be replaced by original spare parts to ensure proper operation.

5.1 Mechanical

PROBLEM	POSSIBLE CAUSE	ACTION
1. Unusual noise	<ul style="list-style-type: none"> ➤ Loose mechanical components or damaged components. 	<ul style="list-style-type: none"> ➤ Locate the cause of the unusual noise. ➤ Contact the service department of Boon Edam.

5.2 Electrical

PROBLEM	POSSIBLE CAUSE	ACTION
1. Winglock 900 is not operational.		
Winglock 900 is not locked.	<ul style="list-style-type: none"> ➤ Power supply 	<ul style="list-style-type: none"> ➤ Ensure power cable is connected. ➤ Check power supply and fuse.
Winglock 900 remains locked.	<ul style="list-style-type: none"> ➤ Lock switch (on control panel) is enabled. ➤ Defective control unit 	<ul style="list-style-type: none"> ➤ Disengage the lock switch. ➤ Contact the service department of Boon Edam.

6 Appendix

This chapter may contain information specific to the project.