



**User Manual**  
(incl. inspect and test log book)

**Overhead door**  
(garage door)

**AquaLOCK series**

# AquaLOCK User Manual

## Contents

Miscellaneous Information .....	3
Guidelines and Standards.....	4
Basic Safety Warnings .....	5
Intended Use .....	5
Special Safety Instructions.....	6
Delivery and Installation.....	8
Electrical Installation .....	8
Commissioning and Operation.....	9
General Information.....	9
Opening the garage door .....	10
Closing the garage door .....	10
Emergency stop.....	10
Manual Actuation.....	11
Release in case of a power or electronics failure .....	11
Faults, Troubleshooting and Repair .....	12
Troubleshooting .....	12
Principles for the inspection of automatic doors and gates.....	13
System data .....	15
Test results .....	16
Maintenance results.....	17
Cleaning instructions / maintenance .....	18
Repair .....	18
Spare parts.....	18
Service life of wearing parts .....	18
Proper disposal.....	19
Garage door opener .....	19
Warranty information.....	22
Appendix and components of this Manual .....	23

# AquaLOCK User Manual

## Miscellaneous Information

Dear Customer, we are pleased that you have chosen an overhead door from our company. The door meets the most recent safety regulations (directives and EN standards). Dear Customer, we are pleased that you have chosen an overhead door from our company. The door meets the most recent safety regulations (directives and EN standards).

- Door and motor have been TÜV-tested
  - No complicated load measurements are necessary prior to use
- Maintaining adequate safety distances and safe load limits have been ensured
  - Crush or cutting issues have been prevented
- Safety against fall has been ensured
  - Spring assemblies provide additional panel balance

This user manual is an important part of the door assembly, please keep it in a safe place for future reference. Make sure to note the instructions in the user manual, they provide important information for the day-to-day use of the product.

On the inside of your overhead door you will find the most important instructions again in a Quick Guide.

We wish you much pleasure and enjoyment with our overhead door. Should you have any problems, questions or suggestions about the door, please contact us or your local dealer.

# AquaLOCK User Manual

## Guidelines and Standards

The following guidelines and standards have been taken into account for the design and production of the overhead door, in particular:

305/2011BauPVO	German Construction Products Regulation
2006/42/EG	Machinery Directive (formerly 98/37/EC)
89/336/EEC	EMC Directive (with amendments 91/263/EEC, 92/31/EEC,93/68/EEC)
73/23/EEC	Low voltage Directive (with amendments 93/68/EEC)
EN 12604:2000	Mechanical aspects; requirements and classifications
EN 12605:2000	Mechanical aspects; test methods
EN 12445:2000	Operating safety .... ; test procedures
EN 12453:2000	Operating safety, ... , test requirements
EN 954-1:1996	Safety of Machinery; safety-related components of control parts
EN 60204-1:1997	Safety of machinery; electrical equipment
EN 60335-1:1994	Safety of electrical equipment ....., General requirements
EN 13241-1: 2004	Doors and gates product standards

**Note** The door has been produced in accordance with all listed standards and guidelines and has been tested (TÜV SÜD Industrie Service GmbH, Filderstadt) before leaving the facility in proper and safe operating condition.

# AquaLOCK User Manual

## Basic Safety Warnings

### **Important!**

This overhead door meets the most recent safety regulations and EN standards. Improper use may result in injury to persons, animals and property. Read this User Manual carefully before attempting to operate the overhead door. This is for your protection and to avoid any damages to the system.

**Keep this manual in a safe place.**

### **Intended Use**

The overhead door is intended for installation in garages, for access areas of persons and mainly for use as safe access for vehicles, accompanied by persons, in a residential area. For example, use according to specification is also:

- observing the operating instructions
- operating the door only in flawless condition with regard to safety
- opening and closing the door panel only without load
- having repairs and maintenance on the door only done by the manufacturer or an authorised contractor.

The manufacturer cannot be made responsible for damages caused by improper use, incorrect operation or failure to observe the safety instructions.

# AquaLOCK User Manual

The overhead door has been produced and aligned for private and commercial use.

## Special Safety Instructions

### **Special note:**

The overhead door is to be professionally serviced once a year. This applies to the force limiting system and the functions of any installed safety equipment in particular. The inspection can only be performed by a professional. If you would like to take advantage of this service, please speak with your dealer or your factory distributor, we can of course take care of the maintenance work while doing the inspections.

**The seals installed on the door panel should be checked for damage in particular. Similarly, the solid bond of the seals with the door panel should be inspected. Furthermore, check on a regular basis if the seals between the door frame and the building are in perfect condition.**

# AquaLOCK User Manual

Construction of the steel components and flotation springs has been designed to be used in a multi-family household and with normal use we planned on a service life of at least 10 years; this could, with the appropriate maintenance be extended to double that time. It would merely require the regular visual inspection of rotating or loose parts, the seals, as well as an occasional lubrication of the door mechanisms, which can all be done by the operator.

## **Important!**

Any damage to the garage door and the garage door opening mechanism requires a full expert inspection by a technician immediately. Repairs may only be carried out by qualified technicians, since significant hazards may arise due to improper repairs.

Work on electrical components / electronics can only be done by a certified electrician

# AquaLOCK User Manual

## Delivery and Installation

Your overhead door, including all accessories, will be delivered and installed by professionals (trained installers). A safety inspection will take place after completing the installation and the system can then be put into operation. If you can be present at the time, we will be happy to explain the operation to you on-site. In any case, you will receive the handover documents (overhead door user manual / garage door opener operating instructions). The User Manual includes the test log book and the various signed performance declarations according to the Construction Products Regulations.

## Electrical Installation

In principle, only certified electricians are allowed to work on electrical systems. They must be able to assess the work assigned to them, recognise potential hazards and take the appropriate safety precautions.

- See also Operating Manual for "MP - series Garage door openers"
  - e.g. Special notes for electrical work, 8 S.28
  - e.g. Connecting the add-on components 8.6 ff S.29

### **Attention:**

The installation instructions are not part of the User Manual. In case of a do-it-yourself assembly of the door you must request the installation instructions from us.

Please note for DIY assembly:

- loss of warranty on the seal tightness of the door
- the additional declarations "Installation" and "Commissioning" of the EC Declaration of Performance
- initially the door has to be set into operation by a competent person (qualified technician).

Also see the chapter Initial Start-up.



# AquaLOCK User Manual

## Commissioning and Operation

### General Information

The garage door system is usually equipped with an electric garage door opener. Therefore you will not need any fittings or opening hardware on your garage door. Should you not have additional access to your garage from the inside or on the side, an emergency release mechanism is required, which is available as an optional accessory. The door system will be installed in its entirety by our technicians or by the installers of your certified dealer; all settings at the drive mechanism will be expertly done. The hand-held transmitters are tuned to the radio set and pre-programmed.

### Initial start-up

The initial start-up may only be done by a professional. The initial start-up has to be confirmed in the test log in writing. Also see the chapter on "Inspection/maintenance" in the test log.

The authorised company responsible for the installation (manufacturer / authorised dealer) also carries the responsibility for delivering all documentation (operating manual, inspection and test log book and the performance declaration according to Construction Products Directive) to the customer (operator).

### **Airborne sound (according to MRL appendix 1 1.7.3 (f))**

The continuous sound pressure level of the machine is below 70 dB(A).

# AquaLOCK User Manual

## **Opening the garage door**

The overhead door opens upon actuating the remote control or other control device. Please make sure that, in spite of the secure force limiting system, there are no people, animals or objects in the working range of the door. The remote control should be kept out of the reach of children. The door must only be opened when there is a clear line-of-sight to the door

## **Closing the garage door**

The press of a button on the hand-held transmitter is sufficient for closing the door after driving into the garage. If used for an underground garage, the door is usually set for automatic closing. Please make sure in this case as well that during entry and exit no persons, animals or objects are located in the working range of the door while it is closing.

## **Emergency stop**

The garage door can be stopped at any time by actuating the hand-held remote or other control device a second time while the door is moving. A stop command causes the immediate stop of the door.

Opening and closing can also be accomplished with accessories, like buttons, key-operated switches or similar devices, all available for order at your certified dealer or local distributor for an additional fee.

# AquaLOCK User Manual

## Manual Actuation

### Release in case of a power or electronics failure

The door can be opened any time from the inside (or from the outside, if the door is the only access to the garage) in case there should be a power failure for a longer period, or if your garage door should display a defect of some kind.

**THIS WORK MAY ONLY BE CARRIED OUT BY TRAINED PERSONNEL!!!**

- Make sure you always have secure footing when opening the door
- Press the release button on the rail of the garage door opener, which is mounted to the ceiling of the garage. This will allow the door sled to move freely, you can open and close the garage door manually now. Reverse the procedure to re-engage the door
- **Snapping-in or re-engaging the door has to be done softly to avoid damage,**

Additional information and safety advice is available in the User Manual for the "Garage door opener".

Please note that this function is only designed as an emergency release. Daily use is not advisable, since the rail-set mechanism is not designed for continuous operation. We recommend using other hand-held transmitters, or installing inside as well as outside buttons (key switches, code lock pads), so that opening with electrical power is always possible.

# AquaLOCK User Manual

## Faults, Troubleshooting and Repair

Check the entire door system, joints, door pulley springs and hardware after each disruption, before setting the door back into operation. When repairs are required, the system must not be operated, until you can ensure that there is no risk to persons, animals, environment or property. Contact our service department, sometimes just a call may be able to resolve your issue

### Troubleshooting

<b>Disruption</b>	<b>Possible cause</b>	<b>Corrective action</b>
Garage door does not open	The plug is not plugged in	Plug in the connector
Garage door does not open remotely	Hand-held transmitter does not work	Insert new batteries
Motor is running, but the door does not move	Door has been operated manually	Snap the actuators back into the drive pulley
Garage door does not open/close	There is an obstacle in the way	Remove the obstacle
Garage door opens only a few cm (during winter operation)	There may be snow in the opening range, which automatically forces a power shut-down	Clear garage opening

# AquaLOCK User Manual

## Principles for the inspection of automatic doors and gates

The safety-related requirements for automatic/power-operated doors have been laid down in the "Guidelines for automatic/power-operated windows, doors and gates" (ASR A 1.7). Automatic/power operated doors have to be inspected before the initial start-up (done by TBS) and later as needed, but at least annually, by a qualified technician. This inspection is not synonymous with a maintenance service.

**Qualified personnel are persons, who by virtue of their technical training and experience have sufficient expertise in the field of automatic / power-operated windows, doors and gates and are familiar with the relevant regulations and directives and generally recognised rules of engineering, to be able to assess the safe operating condition of the automatic doors. These people include specialists from the manufacturer for example, professionals with the relevant experience of the operator or other persons with relevant expertise.**

# AquaLOCK User Manual

## Inspection checklist for automatic overhead doors

The following list of parts and functions, which are subject to inspection, is meant as an aid to the expert inspector. In essence, visual and operational checks should be performed, where completeness, condition and effectiveness of components and safety devices are to be assessed.

### 1. Panels

- 1.1. Mounting and condition
- 1.2. Guide rails, intake guide, plastic inserts
- 1.3. Casters
- 1.4. Emergency manual operation (mechanical release)

### 2. Drive

- 2.1. Motor/drive mount and console
- 2.2. Motor/drive sounds
- 2.3. Panel weight counter balance - Condition of the electrical lines and connections

### 3. Drive chain

- 3.1. Chain or belt, rail, drive pulley
- 3.2. Panel mount (push rod)

### 4. Control

- 4.1. Self-learn ability for the end-stop location
- 4.2. Runtime limits, automatic shut-off function
- 4.3. Push-button switch, key-switch – function
- 4.4. Remote control mechanisms

### 5. Mechanisms controlling crush and pinch prevention safety

- 5.1. Force limiting system

### 6. Safety devices against crashing down of the panel

- 6.1. Door pulley springs
  - 6.1.1 Attachment
  - 6.1.2 Wear

# AquaLOCK User Manual

## System data

- 1. Designation:** \_\_Overhead door\_\_\_\_\_   
Type: AquaLOCK    Manufacturer No.: see type plate \_\_\_\_\_   
Year built: see type plate \_\_\_\_\_   
Brought into service on: see type plate \_\_\_\_\_   
\_\_\_\_\_  
Manufacturer or supplier: Torbau Schwaben GmbH   
  
Operators and operating location: see delivery note \_\_\_\_\_  
\_\_\_\_\_
- 2. Panels:** (see type plate)   
Dimensions: \_\_\_\_\_ Material: \_\_\_\_\_   
Weight: \_\_\_\_\_ kg, for panels, that will   
be lifted for opening
- 3. Motor / drive:**   
Manufacturer or supplier: Torbau Schwaben GmbH   
Enzianstraße 14, 88436 Oberessendorf   
Type: MP 105-LED GA 404                      Power: 0,2 kW \_\_\_\_\_   
Operating voltage: 230 V \_\_\_\_\_ control voltage: 12/24 V \_\_\_\_\_
- 4. Control:**   
Push-button switch, key-switch, hand-held transmitter
- 5. Safety devices against crashing down of the panel:**   
Motor/drive is able to carry the weight of the panel by   
itself, panel weight to be balanced by door pulley spring.

# AquaLOCK User Manual

<b>Test results</b>			
<b>Date</b>	<b>Test results and required measures (refer to the enclosed appendix as needed)</b>	<b>Signature of the inspector/auditor, stating the company</b>	<b>Deficiencies corrected, Date, Signature</b>



# AquaLOCK User Manual

<b>Maintenance results</b>			
Date		Signature of the technician, stating the company	
	Maintenance results and required measures (refer to the enclosed appendix as needed)		
		Deficiencies corrected, Date, Signature	

# AquaLOCK User Manual

## Cleaning instructions / maintenance

The seal tightness of the door panel, as well as the stops on the door frame and at the lower stop rail, have to be cleaned on a regular basis. Pay special attention to the lower door stop rail so that no objects (i.e. stones and similar) prevent proper adherence of the seal. In cold weather, the rubber seal should be treated with a commercially available rubber care product.

## Repair

Please contact the manufacturer or an authorised distributor with your need. This will ensure that any risks associated with the overhead door are taken care of permanently. Repairs may only be done by a professional. Improper repairs can create significant risks for the users.

## Spare parts

Use only original spare parts so that you do not jeopardise the safety of the system and possibly invalidate the warranty.

## Service life of wearing parts

We estimate the following minimum service life for AquaLOCK wearing parts:

Casters	500.000 door movements (250 000 cycles)
Door pulley spring	50.000 door movements
Hinged bracket	500.000 door movements
Plain and ball bearings	500.000 door movements

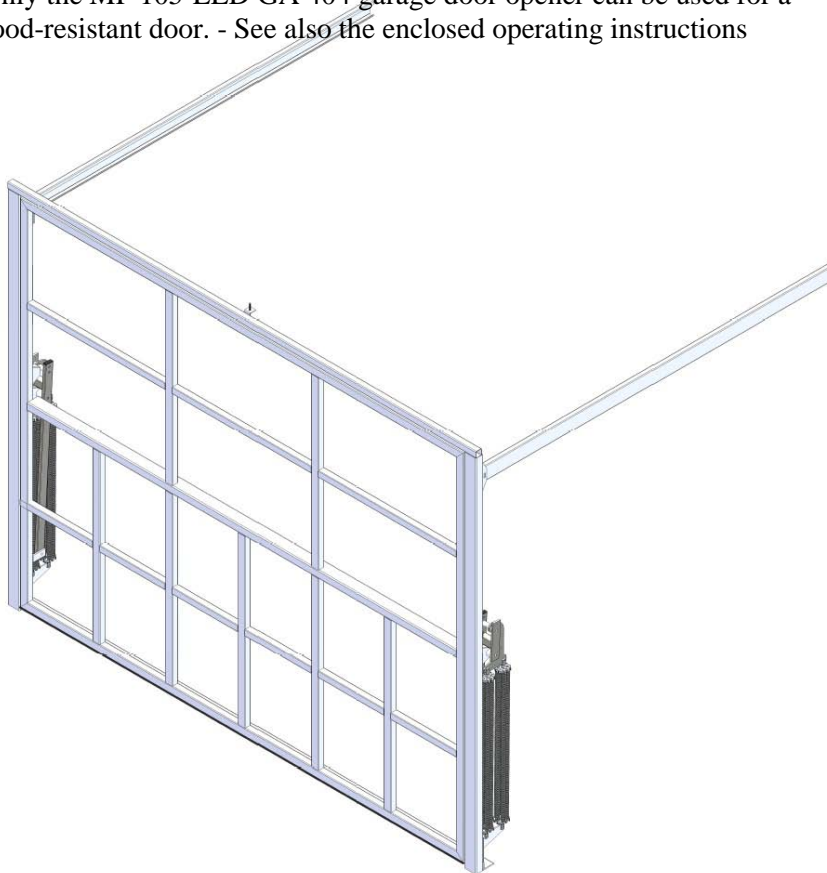
# AquaLOCK User Manual

## Proper disposal

Your overhead door has been produced exclusively with materials that are not a danger to man or environment. Should you need to recycle your overhead door at some time in the future, please direct all parts back to the appropriate recycling cycle (scrap metal, scrap wood, etc..)

## Garage door opener

Only the MP 105-LED GA 404 garage door opener can be used for a flood-resistant door. - See also the enclosed operating instructions



# AquaLOCK User Manual

## DECLARATION OF PERFORMANCE

Number: 001

1. Unique identification code of the product type:  
**TBS overhead door**
2. Type designation  
**AquaLOCK (see type plate)**
3. Manufacturer-specified uses of the construction product according to the applicable harmonised technical specifications.  
**Doors are intended for installation in garages, for the access of persons and mainly for use as safe access for vehicles, in residential or commercial areas.**
4. Name, registered trade name or registered trademark and contact address of the manufacturer according to Section 11 Para. 5  
**Torbau Schwaben GmbH, Enzianstraße 14, 88436 Oberessendorf**
5. Name and address of the authorised representative, commissioned with the tasks according to Section 12 Para.2  
**Klaus Koch, Enzianstraße 14, 88436 Oberessendorf**
6. System for the assessment and verification of consistent performance Appendix V  
**System 4**
7. In the case of the Declaration of Performance, concerning construction products, which is governed by a harmonising standard.  
**Initial testing "Safety of access" and "Operating forces" was done according to DIN EN 13241-1 and has been performed with the identification number 0036 by TÜV South**
8. In the case of a Declaration of Performance, with regard to a construction products, that has been issued a European technical assessment  
**is not relevant**

# AquaLOCK User Manual

## 9. Declared performance

Main features	Performance	Harmonised technical specifications
Safe access	Doors up to 32000 mm width and 2500 mm height	DIN EN 13241-1 DIN EN 12604/12605
Operating forces	Doors up to 3200 mm width and 2500 mm height	DIN EN 13241-1 DIN EN 12604/12605
Mechanical strength	No damage during normal operation	DIN EN 13241-1
Electrical safety	Protection against abuse	DIN EN 13241-1
Electromagnetic compatibility	Shielding from electromagnetic interference	DIN EN 13241-1 EN 61000-6-3
Resistance to wind force	Class 2	DIN EN 13241-1 EN 1244:2000-11
Excellent weather tightness (driving rain)	tested	EVH008/TBS05/03/15 DIN EN 13241-1 EN 12489:2000-07
Airborne sound	>70 dB	DIN EN 13241-1

10. The performance of the product according to Items 1 and 2 corresponds to the stated performance after Item 9. The manufacturer bears the sole responsibility for the Declaration of Performance, in accordance with Item 4.

Signed for the manufacturer and in the name of the manufacturer



10.02.2015

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Frank Landthaler, Managing director / Operations manager

# AquaLOCK User Manual

## Warranty information

### Door construction, including all add-on parts

- 60 months from date of purchase, but only a maximum of 50 000 movements.

### Garage door opener MP105 GA 404 (chassis, rail, motor)

- 60 months from data of purchase, but maximum of 50 000 movements.

### Controls, radio communication, impulse transmitter, accessories and special components (all drives)

- 24 months from date of purchase

### **A prerequisite for this is an annual professional inspection.**

The warranty will not be extended by its use. The warranty period for replacement deliveries and rework is the warranty period of six months, or at least the current warranty.

## Prerequisites and Performance

The guarantee is only valid for the country of purchase. The product has to have been purchased from the distribution channel as specified by us. Claims are only valid for damages to the object of agreement itself. We will eliminate all deficiencies of the product for the duration of the warranty period, if they can be proven to be caused by defects in material or manufacturing. We commit, retaining our right to choose, to either replace the product with non-defective product at no cost, to rework the product or to replace it at a price reduction.

Excluded are:

- wearing parts, like lamps, batteries, etc.
- improper installation and connection
- external influences such as fire, water, abnormal environmental influences
- improper start-up and operation
- mechanical damage caused by accident, shock, etc..
- negligent or wilful destruction
- normal wear and tear
- use of non-original parts
- other general unusual activities

# AquaLOCK User Manual

## Appendix and components of this Manual

**Handover and initial start-up certificate as a supplement.  
Maintenance and user manual (short form) with inspection dates**

### System data

2. Adhere type plate

**Dimensions:** see invoice/delivery note

**Material:** see invoice/delivery note

**Operating location:** see invoice/delivery note

**For your notes:**

# AquaLOCK User Manual

**We are glad to be of assistance, should you have any questions or suggestions.**

