

# Manual for use and maintenance

RBS 3H



## RBS 3H

Bird Scale

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This manual for use and maintenance is an integral part of the apparatus together with the attached technical documentation.

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Munters reserves the right to effect modifications to the apparatus in accordance with technical and legal developments.

# Index

<i>chapter</i>		<i>page</i>
	<b>4 INTRODUCTION</b>	<b>1</b>
	4 Disclaimer	1.1
	4 Introduction	1.2
	4 Notes	1.3
<b>5</b>	<b>INSTALLING THE RBS 3H</b>	<b>2</b>
	5 Pole A 2.1.1	
	5 Pole B 2.1.2	
	5 Base Plate 2.1.3	
	5 Transducer 2.1.4	
	6 Assembly	2.2
	6 General Assembly 2.2.1	
	6 Detailed Assembly 2.2.2	
	<b>10 WARRANTY</b>	<b>3</b>

# 1 Introduction

## 1.1 Disclaimer

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## 1.2 Introduction

Congratulations on your excellent choice of purchasing an RBS-3H!  
In order to realize the full benefit from this product it is important that it is installed, commissioned and operated correctly. Before installation or using the fan, this manual should be studied carefully. It is also recommended that it is kept safely for future reference. The manual is intended as a reference for installation, commissioning and day-to-day operation of the Munters Controllers.

## 1.3 Notes

Date of release: July 2010

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## 2 Installing the RBS 3H

The RBS-3H hanging scale is assembled in simple, easy to follow steps as seen in the following section. It is adjustable, must be hung from above, and is collapsible. The poles slide into one another for ease of transport and storage.

The RBS-3H hanging scale is composed of the following components:

- Pole A
- Pole B
- Base Plate
- Transducer

### 2.1.1 POLE A

Pole A, 151.5cm/59.4inches, is the larger in diameter of the poles. It has two thumb screws near the open end. The other end connects to the plate. Pole B is nested inside. Refer to Figure 2.



Figure 1: Pole A

### 2.1.2 POLE B

Pole B, 154.5cm/160.8inches, stores inside Pole A, and has a hook at one end. Pole B connects to the transducer. Refer to Figure 3.



Figure 2: Pole B

### 2.1.3 BASE PLATE

The base plate is a five-side polygon base constructed of heavy corrugated metal and is used to place the birds for weighing. The base plate is composed of the following sub-components:

- Plate base
- Bolt
- Nut
- Metal washer
- Two square flat metal pieces (used for balast)

### 2.1.4 TRANSDUCER

The transducer converts weight from the RBS-3H hanging scale into data which is input and read by a connected digital scale. The RBS-3H transducer is suspended from above and Pole A hooks onto the ring. Refer to Figure 4.



Figure 3: Transducer and Data Cable

## 2.2 Assembly

This section contains the following:

- General Assembly
- Detailed Assembly

### 2.2.1 GENERAL ASSEMBLY

An general view of the RBS-3H assembly is as follows:

1. Position transducer with eyebolt.
2. Connect Pole A to base.
3. Extend and position Pole B, hook onto transducer.
4. Connect transducer data plug with computer/electronic scale device

### 2.2.2 DETAILED ASSEMBLY

The RBS-3H hanging scale package contains poles (A and B), a base plate assembly, and a transducer (device and cable). Refer to Figure 5.



Figure 4: RBS-3H Package Contents

5. Remove Pole A and loosen the thumbscrews. Refer to Figure 6.



*Figure 5: Releasing Pole A Thumb Screws*

6. Extend Pole B to the desired position and set aside. Refer to Figure 7.



*Figure 6: Extending Pole B from Pole A*

7. Use a wrench to release the base plate bolt from the nut. Refer to Figure 8.



*Figure 7: Release Base Plate Bolt*

8. Invert the base plate bolt so that it extends upwards out of the base plate.

9. Position Pole A onto the base plate bolt and screw tightly. Refer to Figure 9.



*Figure 8: Connect Pole A to Base Plate*

10. Connect the pole assembly onto the hanging transducer and connect the data cable to the computer/weight scale. Refer to Figure 10.



*Figure 9: Connect Pole Assembly to Transducer*



Figure 10: RBS-3H Hanging Scale Assembled

# 3 Warranty

## Warranty and technical assistance

Munters products are designed and built to provide reliable and satisfactory performance but cannot be guaranteed free of faults; although they are reliable products they can develop unforeseeable defects and the user must take this into account and arrange adequate emergency or alarm systems if failure to operate could cause damage to the articles for which the Munters plant was required: if this is not done, the user is fully responsible for the damage which they could suffer.

Munters extends this limited warranty to the first purchaser and guarantees its products to be free from defects originating in manufacture or materials for one year from the date of delivery, provided that suitable transport, storage, installation and maintenance terms are complied with. The warranty does not apply if the products have been repaired without express authorisation from Munters, or repaired in such a way that, in Munters' judgement, their performance and reliability have been impaired, or incorrectly installed, or subjected to improper use. The user accepts total responsibility for incorrect use of the products.

The warranty on products from outside suppliers fitted to the RBS, (for example antennas, power supplies, cables, etc.) is limited to the conditions stated by the supplier: all claims must be made in writing within eight days of the discovery of the defect and within 12 months of the delivery of the defective product. Munters has thirty days from the date of receipt in which to take action, and has the right to examine the product at the customer's premises or at its own plant (carriage cost to be borne by the customer).

Munters at its sole discretion has the option of replacing or repairing, free of charge, products which it considers defective, and will arrange for their despatch back to the customer carriage paid. In the case of faulty parts of small commercial value which are widely available (such as bolts, etc.) for urgent despatch, where the cost of carriage would exceed the value of the parts, Munters may authorise the customer exclusively to purchase the replacement parts locally; Munters will reimburse the value of the product at its cost price.

Munters will not be liable for costs incurred in demounting the defective part, or the time required to travel to site and the associated travel costs. No agent, employee or dealer is authorised to give any further guarantees or to accept any other liability on Munters' behalf in connection with other Munters products, except in writing with the signature of one of the Company's Managers.

**WARNING:** In the interests of improving the quality of its products and services, Munters reserves the right at any time and without prior notice to alter the specifications in this manual.

The liability of the manufacturer Munters ceases in the event of:

- dismantling the safety devices;
- use of unauthorised materials;
- inadequate maintenance;
- use of non-original spare parts and accessories.

Barring specific contractual terms, the following are directly at the user's expense:

- preparing installation sites;
- providing an electricity supply (including the protective equipotential bonding (PE) conductor, in accordance with CEI EN 60204-1, paragraph 8.2), for correctly connecting the equipment to the mains electricity supply;
- providing ancillary services appropriate to the requirements of the plant on the basis of the information supplied with regard to installation;
- tools and consumables required for fitting and installation;
- lubricants necessary for commissioning and maintenance.

It is mandatory to purchase and use only original spare parts or those recommended by the manufacturer. Dismantling and assembly must be performed by qualified technicians and according to the manufacturer's instructions.

The use of non-original spare parts or incorrect assembly exonerates the manufacturer from all liability. Requests for technical assistance and spare parts can be made directly to the nearest Munters office. A full list of contact details can be found on the back page of this manual.

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