

DeLaval mini reader MIRW

Instruction Book

Safety precautions

DeLaval mini reader MIRW

1 Foreword

The safety and operational instructions must be observed by any person involved with the use or operation of this equipment. Under no circumstances must the equipment be used if it is damaged or if the operation of the equipment is not completely understood.

2 Disclaimer

The information, instructions and parts listed are applicable and current on the date when issued. DeLaval reserves the right to make changes without notice.

3 Definitions of admonishments

Admonishments are safety related warning messages.

Admonishments provide important information intended to prevent incorrect or hazardous use of equipment, machinery or software, and support risk assessment.

The following list defines the different types of admonishments used in DeLaval documentation:

Danger: Refers to imminent and severe risk. Failure to comply with instruction will result in serious injury or death.

Warning: Refers to a potential but severe risk. Failure to comply with instruction could result in injury or death.


Caution: Refers to a limited risk. Failure to comply with instruction could result in minor injury.

Mandatory: Refers to an action or behaviour which is essential to safe and successful use of the equipment.

Prohibited: Refers to an action or behaviour which is incompatible to safe and successful use of the equipment.

Note! *Is intended to draw attention to specific points of importance in the text and advice to prevent equipment damage.*

 This symbol signals risk of injury.

 This symbol signals risk of electric shock.

4 Safety regulations



Warning!

Intended use

Do not use the equipment for any other purposes than the intended use.



Warning!

Risk of injury!

The system must only be operated by trained personnel. Make sure that children and unauthorised people do not come into contact with the system.



Warning!

Keep safety signs legible!

Read all the safety signs on the machine and in this manual. Replace any lost or damaged signs. Keep safety signs clean and legible at all times.



Mandatory!

Read the instructions carefully before using the equipment. Contact the local DeLaval dealer if there are parts of these instructions that are not understood. Compliance with the instructions ensures a correct and safe use of the equipment. Save the instructions for future reference.

**Prohibited!**

Do not use inadequate parts or consumables.

Using products which do not meet specified requirements, for example spare parts or consumables, or not appropriately trained personnel for the DeLaval product may lead to risks or damage. Consequently it may also void or limit the warranty.

5 Compliance with national regulations

5.1 FCC Compliance statement

This equipment was tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

5.2 ISED Compliance statement

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s).

Operation is subject to the following two conditions:

- 1 - This device may not cause interference.
- 2 - This device must accept any interference, including interference that may cause undesired operation of the device.

Note! *Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

6 Safety devices

This system is designed to be safe to operate. The safety devices that are installed are there for personal safety and must not be modified, removed, or disconnected.

Any modification to the equipment's original design may compromise the personal safety. Consequently it may also void or limit the warranty.

Note! *All safety devices in the system must be checked by a DeLaval representative before the system is signed over to the customer.*

7 Safe and healthy work routines

- Ensure that the area is well lit.
- Keep the floor dry to avoid slipping.
- Wear protective clothing and appropriate shoes or boots.
- Keep a good milking hygiene.

8 Warranty

Note! *DeLaval will not take any responsibility for damage resulting from faulty installation, operation, or for improper or inadequate care and maintenance.*

Note! *DeLaval will not take any responsibility for any damage resulting from frost. The owner/user must take the necessary measurements to prevent the ambient temperature around the equipment from dropping to or below freezing point.*

Note! Modification may create risks not covered by the original construction. Do not make any modifications which has not been approved by DeLaval.

9 Regulatory compliance

For more information on regulatory compliance, see

<http://www.delavalcorporate.com/sustainability/our-operations/regulatory-Compliance/>.

DeLaval mini reader MIRW

General description

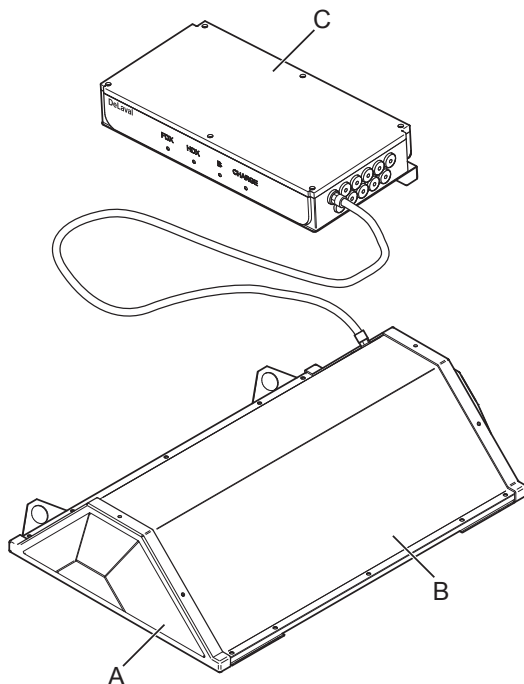
General description

DeLaval mini reader MIRW

1 Introduction

DeLaval mini reader MIRW is a over head ID antenna aimed for identification of cows.

It has the broadiest application area in relation to what type of transponder is used. DeLaval mini reader MIRW can process the transponder information from both the ISO HDX and FDX transponders.



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Fig. 1: The DeLaval mini reader MIRW.

- A: Plastic front sheet with an encapsulated multi conductor.
- B: Galvanized steel stand maintaining strength and shielding.
- C: External box containing electronic circuits.

2 Technical data

- Input voltage: 12 VAC
- Input voltage tolerance: -10% to +20%
- Power: 30 VA
- Reading range: 600 mm

DeLaval mini reader MIRW

General description

3 Current consumption in walk by antennas

DeLaval mini reader MIRW	
DeLaval mini reader MIRW	1,5 A rms
DeLaval mini reader MIRW includes photo-cell, control valve	2,4 A rms (ALPRO ID sync)
DeLaval mini reader MIRW includes photo-cell, control valve	2,8 A rms (Hardware sync)

Planning

DeLaval mini reader MIRW

1 Article number

Article number	Description
85232681	DeLaval mini reader MIRW

2 Dimensions and weight

The dimensions for DeLaval mini reader MIRW are the following:

- Length: 0.81 m [31.89"]
- Width: 0.56 m [22"]
- Height: 0.31 m [12.2"]
- Weight: 13.5 kg [29.7lb]

DeLaval mini reader MIRW

Operator's maintenance

Operator's maintenance

DeLaval mini reader MIRW

1 Maintenance schedule

No	Operator's maintenance task	Frequency	Max. interval	Replacement parts or kits
1	Cleaning the mini reader antenna	-	Daily	
2	Checking the screws and bolts	-	Yearly	

Frequency	-
Max. interval	Daily
Estimated time:	-
Service type:	Clean

No 1 Cleaning the mini reader antenna

- Clean the mini reader antenna using only water.

Note! Do not direct high pressure cleaner directly towards the electronic box.

Frequency	-
Max. interval	Yearly
Estimated time:	-
Service type:	Inspect

No 2 Checking the screws and bolts

- Check that all screws and bolts are tighten up.

Troubleshooting

DeLaval mini reader MIRW

1 Troubleshooting table

For DeLaval sort gate SG troubleshooting, see chapter "*Troubleshooting*" in the "*DeLaval sort gate*" Instruction Book.

No.	Symptom	Cause	Action
1	Wrong ID or missed ID. Low hit rate.	More than one animal in front of the antenna.	Check that portal frame width is adjusted to fit only one animal. If not, contact the DeLaval service technician to adjust.
		Faulty transponders.	Replace broken or weak transponders.
		Ear transponder at the wrong side.	Move the transponder to the left ear.
		Dirty or broken photocell.	<ul style="list-style-type: none">■ Clean the photocell with a damp cloth.■ If the problem persists, contact the DeLaval service technician.
		Other causes with the same symptom.	Contact the DeLaval service technician.
2	LED indicator on portal reader indicates reading transponders, but animal ID does not appear on any MPC when animals are entering the parlour.	More than one animal in front of the antenna.	Check that portal frame width is adjusted to fit only one animal. If not, contact the DeLaval service technician to adjust.
		Communication problem.	Contact the DeLaval service technician.
3	Missed ID when animals are entering.	Interference or disturbance problems.	Contact the DeLaval service technician.
		Animal transponder missing from DeLaval farm management system software.	Register missing transponder and animal in farm management system software.
4	Animal ID is erased from the Milking Point Controller before the parlour is full.	Communication problem.	Contact the DeLaval service technician.

