

IDAL^{3G}

USER MANUAL



MSD
Animal Health

Table of contents

1. About this document	4
2. Transport and storage.....	4
3. General safety advice for operating and cleaning	4
4. General description and information	6
4.1 Purpose of the IDAL device.....	6
4.2 Contents of the packaging.....	6
4.3 Operating requirements.....	6
4.4 Target species.....	6
4.5 Working mechanism.....	7
5. Operating and cleaning.....	11
5.1 Preparing the IDAL device for vaccination	11
5.2 Vaccination.....	12
5.3 The shot counters.....	13
5.4 Stand-by and switching off	15
5.5 Cleaning instructions	15
6. Maintenance and repair	17
6.1 Nozzle service	17
6.2 Factory service	20
7. Dismantling	20
8. The battery and the charger.....	21
9. Troubleshooting	23
10. Technical Specifications	24
11. Disposal	25
12. EC declaration	26

Original User Instruction

This user manual is part of the **IDAL 3G** and an important part of the security concept.



- Read the user instruction carefully and follow the instructions -

1. About this document













In this user manual, you will see warning signs (icon on the right), informing you of a risk of injury or material damage. Always read and observe these warnings!











2. Transport and storage

Check the IDAL device before use for any damage.
Protect the product against damage during transport.
Transport and/or store the IDAL device in its original packaging.
Store the IDAL device away from sunlight.
Do not store the batteries at temperatures below 5°C (40° F).
Never store the IDAL device when wet or humid (e.g. directly after cleaning).

3. General safety advice for operating and cleaning

-  Direct contact between the vaccine and/or rinsing fluid and the eyes and/or respiratory tract of the operator can be harmful. In these cases, seek immediate medical advice and show the vaccines product information.
-  Use the IDAL device for vaccinating pigs **only**.
-  Keep children out of the vaccination area.
-  Do **not** point the IDAL device towards any part of your body or towards other people! In case of accidental injection of vaccine and/or rinsing fluid, seek immediate medical advice and show the vaccine information sheet.
-  Beware of the needles in the holder. They may contain residues of the vaccine and/or rinsing fluid. In case of a needle wound, seek immediate medical advice and show the vaccine information sheet.
-  Do **not** operate the safety cylinder around the injection head with your hand when starting, vaccinating or cleaning.
-  If the safety cylinders are depressed when fingers or other body parts are in front of the injection heads, there is a danger of accidental self-injection with vaccine or rinsing fluid. Seek immediate medical advice and show the vaccine information sheet.
-  Wear safety goggles and a mask when using the IDAL device. Ensure goggles are clean for optimal vision.
-  Wear rubber gloves when cleaning the IDAL device.
-  Do not throw the battery into water. Protect the battery from water and humidity. It may leak and release hazardous substances.
-  Do not throw the battery into fire. It may explode and/or release hazardous substances.
-  Do not expose the battery to temperatures higher than 60°C. It may explode and/or release hazardous substances.

-  Only veterinary practitioners or operators instructed by a veterinary practitioner are permitted to work with the IDAL device and vaccines.
-  Only use approved vaccines (Porcilis® PRRS, Porcilis® Begonia, Porcilis® Mhyo ID ONCE, Porcilis® PCV ID) and rinsing fluid prescribed by MSD Animal Health.
-  The use of not approved vaccines, hormones, antibiotics or overdosage of the approved vaccine can lead to adverse health effects of the animals or subsequently of humans.
-  Fitting a vial into the holder can cause excess pressure inside the vial. The excess liquid is released via an overflow hose and can appear at the base in front of the handle. Remove this liquid with a soft clean cloth. To prevent leakage, pierce the vial prior to mounting with a sterile needle to reduce the pressure and hold the IDAL Device upside down when placing a new vial.
-  Releasing the trigger of the IDAL device will immediately switch off all controls, making it impossible to give an injection.
-  When expelling vaccine or rinsing fluid from the device, always position the injection nozzles on a cloth in a receptacle placed on a firm base. Never inject into the air.
-  If the safety cylinders remain jammed around the injection nozzles after firing, immediately release the trigger of the IDAL device and contact your supplier.
-  Operating the IDAL device for long periods of time may induce cramps in the operator's hands. Regular breaks are recommended.

4. General description and information

4.1 Purpose of the IDAL device

The IDAL device is used for the needle-free intra-dermal vaccination of pigs (IDAL = **I**ntra **D**ermal **A**pplication of **L**iquids). Intra-dermal means "into the skin". Vaccines given with the IDAL must be approved for intra-dermal administration by MSD Animal Health.

4.2 Contents of the packaging

IDAL 3G Device	Battery Charger	2 Batteries	Rinsing Fluid (2 Vials)
			

Note: Before using the IDAL device for the first time, charge the batteries in the battery charger. Please read chapter 8 how to optimize the lifetime and durability of the batteries.

4.3 Operating requirements

The IDAL device may only be operated by veterinary practitioners or by individuals who have been instructed by veterinary practitioners.

4.4 Target species



The IDAL device should **only be used for vaccinating pigs**. It should not be used in other species. The functionality of the IDAL device should only be tested on surfaces mentioned in this user manual (e.g. a sponge or a thick cloth in a receptacle).

4.5 Working mechanism

The IDAL Device has a bottle holder equipped with a needle (B), in which a vial can be mounted. Vaccination takes place through the injection head or nozzle (A). The injection head is fitted with a mechanical safety cylinder.

A day counter, bottle counter and a service counter are integrated in the IDAL Device. The screen is operated by the two buttons underneath the display screen (C).

The IDAL device comes with two batteries and a battery charger. Before use, insert a charged battery into the base of the IDAL device (D).



A vial of vaccine is inserted inside the bottle holder of the IDAL device. The IDAL device is activated by depressing the trigger. This will start up the pump and vaccine is automatically drawn out of the vial. The rinsing fluid, which is present inside the tube during storage, is pumped out of the tube via the injection head.

4.6 The User Menu



When the battery is inserted, the **MSD Animal Health** logo is shown on the display, followed by the firmware revision and the serial number. This information is shown for 2 sec.



If the battery is too low, the display will show "Batt Off" or "Charge battery info".



The initial display will show the current status regarding position sensor (on/ off), Day Counter and battery.



Press 'Menu' to show the **Day Counter**. To reset the Day Counter, press "Reset" for at least 3 seconds.



Press 'Next' to show the **Bottle Counter**. On the left, the number of shots given with the bottle is shown. To change values, press 'Select'. The changeable value begins to blink and can be reset by pressing 'Reset' for at least 3 seconds.



Press 'Next' again to show the **Service Counter**. To reset the Service Counter, press "Reset" for at least 3 seconds.



Press "Next" again to show the Total Counter.



Press 'Next' again to show the **Position Sensor**. The position sensor can be activated ('On') or deactivated ('Off') by selecting "On/Off".



Press 'Next' again for the **Calendar** (format: DD.MM.YY). To set the calendar, press 'Select' for 3 seconds until the command 'Next' changes to 'Set' and the first element is flashing. You can switch between "Day", "Month" and "Year" by pressing 'Select'. The changeable value begins to blink and can be changed by choosing 'Set'.



Once the values have stopped blinking, the displayed date can be confirmed by pressing 'Set'.



Press 'Next' to show the **Clock**. To set the clock, press 'Select' for 3 seconds until the command 'Next' changes to 'Set' and the first element is flashing. You can switch between 'Hour' and 'Minute' by pressing 'Select'. The changeable value begins to blink and can be changed by choosing 'Set'.

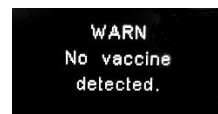
Once the values have stopped blinking, the displayed time can be confirmed by pressing "Set".



The position detection indicates the position of the vial in the holder of the IDAL device.



If the IDAL is in the right position, the small circle is inside the big circle and the IDAL begins to load. This function helps to reduce possible air inside the system.



If the sensors inside the device detect rinsing fluid, '**NO Vaccine Detected - WARN**' is shown on the display.



If the IDAL is primed with vaccine, the display shows a running pig. The IDAL device is now ready for vaccination.

When starting up the IDAL, five rinsing cycles begin automatically. This will ensure replacing the rinsing fluid present in the circuit by vaccine and prevents the accidental injection of rinsing fluid.

To vaccinate a pig, the trigger has to be depressed. The IDAL must load before it is ready to inject (confirmed by running pig on the display). **An injection is only possible if the trigger is depressed AND then the nozzle is pressed against the pig's skin while trigger is kept depressed.**

The vaccine dose will be discharged automatically, after which the IDAL device can be withdrawn from the pig's skin. By keeping the trigger continuously depressed, the IDAL device automatically prepares itself for the next vaccination. The next pig can now be vaccinated by pressing the nozzle against its skin.

After administering a vaccination, a small residue of vaccine is visible on the pig's skin. This is normal with intra-dermal vaccination and does not affect vaccine efficacy.

5. Operating and cleaning

The following steps should be performed in sequence.

- ⚠ The "pump mode" (low pressure) can immediately switch to the "injection mode" (high pressure). Be aware!

5.1 Preparing the IDAL device for vaccination

During storage, the IDAL device contains rinsing fluid. In order to prepare for vaccination, the rinsing fluid must first be removed and be replaced by vaccine.

Step 1: Inserting the batteries

- Place the batteries in the battery charger and ensure they are being charged.
- Insert a charged battery into the base of the IDAL device. For detailed instructions, please see chapter 8.

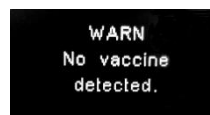
Step 2: Inserting the vaccine vial

- Insert the vaccine vial into the holder with the needle. Ensure that needle is inserted through the centre of the rubber seal (bung) of the vial.
- Push the vaccine vial all the way over the needles. The vial will be adequately held in place by the bung.
- Please note: If liquid leaks out of the base of the device, simply hold the IDAL device upside down while fitting the vial into the holder.

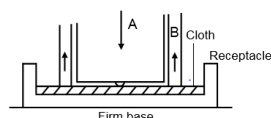


Step 3: Expelling the rinsing fluid

- Depress the trigger to activate the motor.
In the absence of vaccine fluid, "NO Vaccine Detected WARN" will appear on the display of the IDAL device



- Place the injection head (A) squarely on a cloth in a receptacle on a firm base and press down so that the safety cylinder (B) is pushed back.



- Keep the trigger depressed so that the IDAL device enters into its pump phase.

- This will automatically expel the rinsing fluid at low pressure through the tube and the injection head, while gradually drawing vaccine from of the vial into the device. The pump will stop automatically as soon as the sensor in the injection head detects vaccine.

Step 4: priming the IDAL device for vaccination

- When IDAL is filled with vaccine, a running pig is shown on the IDAL display. The IDAL device is now primed.

Step 5: setting the counters

- If required, the day counter or bottle counter can be set to "0" (see under 5.3).

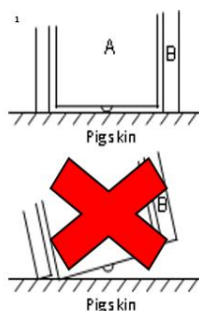
5.2 Vaccination

Before vaccinating, please make sure, that the IDAL Device is primed correctly (please see chapter 5.1 Preparing the IDAL device for vaccination).

To ensure an effective injection technique, the injection head (A), must be placed at right angle against the pig's skin.

Vaccination takes place by pushing the injection head flat against the pig's skin as shown in the picture.

Note: a small residue of vaccine will remain on the pig's skin. This is normal when vaccinating intra-dermally, but has no detrimental effect on vaccine efficacy.

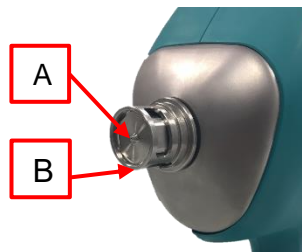


Step 1: Activate the device

- Depress the trigger of the IDAL device and keep it depressed.

Step 2: Press against pig

- Push the front of the injection head (A) against a pig's skin. The safety cylinder (B) will move backwards. The injection dose is now automatically discharged and the vaccine is quickly injected into the skin. Each injection dose contains 0.2 ml of vaccine.

**Step 3: Remove nozzles, release trigger**

- Remove the nozzle from the skin of the pig that has just been vaccinated. Release the trigger. The safety cylinder once will move forward.

Step 4: Repeat

- Push the trigger again. Then place the nozzle onto the skin of the next pig. The safety cylinder moves backwards and the injection is repeated.
- Remove the nozzle from the skin of the pig that has just been vaccinated. Release the trigger. The safety cylinder once again moves into the safety position.

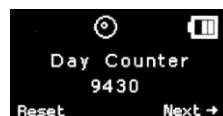
By releasing the trigger between vaccinations, controls are switched off. This safety feature will prevent accidental vaccination. If the IDAL is loaded (running pig) but the trigger is released, the device is in stand-by.

By depressing the trigger and pushing the nozzle against a pig's skin, the IDAL will vaccinate again.

5.3 The shot counters

5.3.1 The day counter

The so-called day counter records the number of vaccine doses delivered in a specified period (e.g. per day or per vaccination session). This counter can be reset at any time. The day counter can record up to 9,999 counts.

**Viewing the day counter**

- Starting from the main menu (current status) select "Menu".
- The number of vaccinations recorded by the IDAL device appears on the display and will be visible for 10 seconds.

Resetting the day counter

- Press the button "Reset" for at least 3 seconds.

- The counter will return to "0".

5.3.2 The bottle counter

The bottle counter shows the number of doses given with the actual vial. The bottle counter must be reset manually with each new vial to check the amount of the doses in the vial.

Viewing the bottle counter

- Starting from the main menu (Current status) select "Menu" and press the button "Next".
- The number of doses given by the IDAL device with the current vial will appear on the display and will remain visible for 10 seconds.



Resetting the bottle counter

- Press button "Reset" for at least 3 seconds.
- The counter returns to "0".

5.3.3 The Service Counter

The service counter indicates the total number of vaccine doses given with the IDAL device since the last service.

Viewing the Service Counter

- Starting from the main menu (Current status), select "Menu" and then press "Next" twice ("Service counter").
- The total number of recorded vaccinations since the last service will be displayed for 10 seconds.



5.3.4 The Total Counter

The service counter indicates the total number of vaccine doses given with the IDAL device. The Total Counter can record up to 999,999 vaccinations.

Viewing the Total Counter

- Starting from the main menu (Current status), select "Menu" and then press "Next" three times ("Total Counter").
- The total number of recorded vaccinations since the last service will be displayed for 10 seconds.



5.4 Stand-by and switching off

Stand-by:

If the trigger is released and no display button is pressed for **30 seconds**, the display will switch OFF automatically. The device is now on stand-by.

To turn the display ON again, simply press any display button or the trigger.

If no action is taken for a further 10 minutes, the device will go into “power saving mode”. In order to reactivate the device, simply press the trigger.



In order to switch off the IDAL completely, the battery needs to be removed.

Without removing the battery, the IDAL will remain on stand-by and battery will be drained. For internal cleaning with rinsing fluid, the device needs to remain on stand-by.

Switch off:

When storing the IDAL device, remove the battery to switch off the device completely. After removal of the battery, the IDAL device can be cleaned externally. Make sure the battery pack does not get immersed in any liquid.

5.5 Cleaning instructions

To ensure that the IDAL device continues to operate correctly, it is extremely important that it is cleaned internally and externally after each vaccination session.

5.5.1 Cleaning the IDAL device internally

Note: to clean the interior of the IDAL device, it must remain on stand-by!

After vaccination, the tubes and valves inside the IDAL device need to be cleaned with rinsing fluid. **Only** use the vial of rinsing fluid supplied by MSD Animal Health (see label).



If the IDAL device is not properly cleaned internally, residues of vaccine will dry inside the tubes. The tubes may become blocked as a result.

Note: A vial of rinsing fluid can be used adequately approximately 3 times. Using a vial more than 3 times can cause leakage or the rinsing fluid can become turbid. Turbid rinsing fluid may cause dysfunction of the IDAL device. Vaccine vials shall be discarded after one use, even when there is vaccine left.

Step 1: put device on stand-by


- Release the trigger.

Step 2: remove vaccine vial

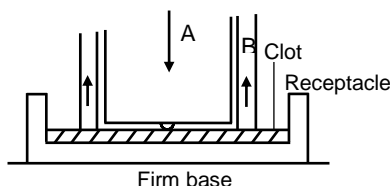
- Remove the vial of vaccine from the holder on the IDAL device.

Note: At this time there is still vaccine inside the tubes of the IDAL device. Before cleaning can take place, all vaccine must be removed from the tubes.

Step 3: Expel remaining vaccine and flush tubes with rinsing fluid

 Remaining injection doses are released **under high pressure** to discharge the vaccine that is still present in the tubes before filling the tubes with rinsing fluid.

- Place a vial of rinsing fluid into the bottle holder with the vial rubber stopper (bung) on the needle. Make sure that the needle enters the centre of the rubber bung.
- Press the vial containing rinsing fluid fully down over the needles. The vial is adequately held in position by the rubber bung.
- Place the injection head (A) squarely on a cloth in a receptacle on a firm base, and press down so that the safety cylinder (B) is depressed. An injection dose is discharged.
- Repeat injecting onto the cloth until the IDAL device changes into the pump phase.




- Keep the trigger depressed and the injection head positioned on the cloth. The IDAL device now automatically starts to pump and the rinsing fluid leaves the tubes via the injection head at low pressure.
- Keep doing this until "**NO vaccine Detected WARN**" appears on the display. This means the injection head detects rinsing fluid instead of vaccine.
- Allow the IDAL device to pump at least another 10 times to properly flush the tubes clean.

When the IDAL device is not being used, the tubes should be filled with rinsing fluid for storage. This will prevent the tubes from drying out and cracking.

Step 4: ready

- Remove the injection head from the sponge or the cloth.
- Remove rinsing fluid vial from the IDAL Device.
- The internal cleaning of the IDAL device is now completed.

5.5.2 Cleaning the IDAL device externally

 The IDAL device is waterproof for splash water (according to standard IP 54) and can be rinsed off under the tap.

The IDAL device can be cleaned using a cloth or tissue and commercial

disinfectants at recommended concentrations (e.g. Meliseptol®, Meliseptol® Foam pure, Wofasept®, Gigasept® FF).

- ⚠ Do not use steam for cleaning or disinfection.

Step 1: Switch off the IDAL Device

- Remove the battery from the base of the IDAL device to switch off the device.

Step 2: Point downwards

- Hold the IDAL device pointing downwards (as when vaccinating) to avoid liquid from entering the mechanical system.

Step 3: Rinse

- Rinse the injection head under the tap. With your other hand on the safety cylinder rotate the safety cylinder to remove any residue of vaccine between the injection head and the safety cylinder [1].
- Then hold the IDAL device slightly slanted and rinse the needle and the holder clean [2].

- ⚠ Ensure that no water can enter the battery housing in the handle!

Step 4: Dry & store

- Take the IDAL device from under the tap and dry it carefully.
- Once it is completely dry, store the IDAL device in its original packaging.





6. Maintenance and repair


6.1 Nozzle service

Maintenance of the IDAL device is required after 20,000 shots. When maintenance is necessary, the message “Nozzle Service” will appear on the IDAL display.

For maintenance, the injection head (available separately) need to be changed by using a torque-calibrated wrench. Maintenance should be done in a clean environment.

 Always remove battery before doing Nozzle service!

 Make sure, that no vial of Diluvac Forte or Rinsing Fluid is placed in the bottle holder of the device.

 Make sure, that no liquid is inside of the Device. In order to do so, please rinse the Device approx. 10 times without any vial of Diluvac Forte or Rinsing Fluid before starting with Step 1.



Step 1: Remove old nozzle

- Unscrew the injection head with a 16-mm-wrench.
- In order to do so, lay the device on the side and hold it with one hand.
- If the wrench does not hold the injection head properly, rotate the safety cylinder a bit.
- Ensure that the exposed tip of the IDAL device is protected from dirt.



Step 2: Lubricate the o-rings of the nozzle

- Remove the spring of the nozzle
- Lubricate the o-rings of the nozzle using a fingertip of Diluvac Forte or White Oil
- Fit the spring to the nozzle again



Step 3: Lubricate the piston rod

- Lubricate the tip of the piston rod using a fingertip of Diluvac Fort or White Oil



Step 4: Place new nozzle

- Put the new nozzle on the tip of the IDAL Device and press it down slightly.
- Ensure, that the nozzle is pressed down until the thread of the nozzle engages all of the thread of the IDAL Device before you tighten the nozzle with a wrench.

**Step 5: Tighten the nozzle**

- Tighten the new injection head using a 16-Nm torque wrench (16 mm).

**Step 6: Check the nozzle**

- Check if the nozzle is sitting correctly and if the safety cylinder around the injection head moveable.

**Step 7: Flush**

- Fit a rinsing fluid vial into the holder and rinse until a clean and continuous jet is coming out of the nozzle.

**Step 8: Check functionality**

- If the nozzle is not operating properly (no clean, continuous jet of rinsing fluid is coming out), please repeat nozzle service.

Step 9: Reset Service Counter

- After successful completion of nozzle service, please reset service counter.
- Starting from the main menu (Current status), select "Menu" and then press "Next" twice ("Service counter").
- Press button "Reset" for at least 3 seconds.
- The counter returns to "0".



6.2 Factory service

After 100,000 shots, maintenance in an approved service point is necessary. The message "Factory Service" will appear on the IDAL display.

The IDAL device has to be sent to an approved service point.

Please contact your supplier to arrange this.

If repair is required, the IDAL device should be sent to an approved service point. Please contact your supplier to arrange this.

NOTE: Repair or maintenance by unapproved service points will lead to a loss of warranty!

- ⚠ Unauthorized opening of IDAL devices or battery packs may cause harm and is not allowed!
- ⚠ All works on the electrical system may only be carried out by qualified electricians of the manufacturer.

7. Dismantling

The IDAL device may only be dismantled by approved service points.

- ⚠ Do not open the IDAL device due to health and safety risks!

8. The battery and the charger

Battery

The battery of the IDAL device is a rechargeable Lithium Ion (Li-Ion) battery. At least 1,200 injections can be administered by using a fully functioning and charged battery.







The battery should be slotted into the opening in the base of the IDAL device. A fastening button will hold the battery in position. The battery can be removed from the base by pushing down the button at the back of the battery and by pulling out the battery.




- ⚠ Use only the appropriate batteries in the IDAL 3G Device. The use of other batteries can lead to injuries and fire hazard.
- ⚠ Do not expose the battery to mechanical shocks.
- ⚠ Stop using the battery if the battery becomes abnormally hot, order, discoloration, deformation, or abnormal conditions is detected during use, charge, or storage.
- ⚠ Replace the battery when using time of battery becomes much shorter than usual.
- ⚠ It is recommended that the battery is only charged when the "**charge battery**" warning appears on the display. Never store empty batteries!



Charger

Charge the battery using only the charger supplied. Connect the battery to the charger and connect the charger to an electric socket. When connected correctly the charging process will start automatically.

-  Check the charger regularly for damage, especially the connection cable and the housing. Do not use damaged battery chargers.
-  Always grasp the plug, not the cable, when removing the mains plug from the socket.
-  Faulty electrical installation or too high mains voltage can lead to electric shock. Only connect the battery charger to an easily accessible socket, so that you can quickly disconnect it from the power supply in the event of fault.
-  If you charge the battery improperly, the battery, battery charger and the IDAL 3G Device may be damaged. Charge the battery at an ambient temperature between 0°C and 45°C.

The LEDs have the following functions:

LED lights orange: Battery is empty and charging	
LED lights yellow: Battery is partly charged and still charging.	
LED lights green: Battery is fully charged.	

-  The battery charger is not waterproof!
-  Operate the battery charger indoors only!

9. Troubleshooting

Fault	Cause	Solution
Injection is not possible.	Dirty nozzle.	Clean nozzle (see 5.5.2)
	Malfunctioning nozzle.	Perform Nozzle Service (see 6.1).
	Application error.	Place injection head squarely on the animal skin (see 5.2)
Liquid is seeping away at the bottom to the front of the handle.	When fitting a vial into the bottle holder there may be slight excess pressure inside the vial. Excess liquid is discharged via an overflow hose and will appear at the base at the front of the handle. This has no impact on the injection process.	Remove the liquid with a soft clean cloth. Release pressure from vial prior fitting it to the holder.
		Hold the device upside down when inserting new vials.
When cleaning internally after 10x pumps, no rinsing fluid comes out of the injection head.	Pump is not working.	Return the IDAL device to MSD Animal Health.
	Vial(s) not properly positioned inside the bottle holder.	Remove the vial(s) and re-position it / them on the needle inside the bottle holder.
The safety cylinder around one nozzle remains jammed following vaccination.	Contamination of the nozzle(s).	Clean the IDAL device.
	Possible damage to the nozzle(s) or to the safety cylinder.	Release the trigger immediately, remove the battery and perform nozzle service (see 6.1) or return the IDAL device to MSD Animal Health
A vial falls out of the holder.	Inadequate mounting of the vial onto the needle.	Position a new vial into the bottle holder.
A lot of vaccine on the skin of the animal and no puncture visible (as mentioned in chapter 5.2, it is normal that a small residue of vaccine will remain on the pig's skin).	Air inside the tubing system.	Deactivate the position sensor. Rinse the device with rinsing fluid. During the pump process, hold the device down, during the rinsing process, hold the device up. Repeat this procedure 10 times.

FAULT	Cause	Solution
<u>IDAL device Display</u>		
"Nozzle Service"	The service counter records 20,000 shots: a service is required.	Perform Nozzle Service. Please see Chapter 6.
"Factory Service"	The service counter records 100,000 shots a service in an approved Service Centre is needed.	Contact MSD Animal Health.
"Send to repair"	Repair is needed.	Contact MSD Animal Health.
"Charge battery"	The battery has to be charged. Vaccination is still possible.	Fit a charged battery into the IDAL device and recharge the empty one.
"Battery Off Please Charge"	The battery has to be charged. It is no longer possible to vaccinate. After 3 sec. the device will be turned off.	Fit a charged battery into the IDAL device and recharge the empty one.
"Load Process is too slow"	Weak battery.	Insert a fully charged battery.
	Nozzle defective.	Perform "Nozzle Service" (see Chapter 6)
	Repair is needed.	Contact MSD Animal Health.

10. Technical Specifications

IDAL 3G Device

Modell: 301

Weight: 1147g

Dimensions: 315x188x96mm (with battery)

Battery

Voltage: 10,8 VDC

Capacity: 2500mAh (27,3Wh)

Type: Lithium-Ion rechargeable Cell

Weight: 255 g

Charger

Protection Class: 2

Type: Lithium-Ion battery charger

Input Voltage: 100-240 VAC, 50-60 Hz

Input Current: max 0.9 A

11. Disposal

The IDAL device, batteries, accessories and packaging should be sorted for environmental friendly recycling.

Do not dispose of power tools and batteries/rechargeable batteries into household waste!

Applicable in the EU



Li-Ion

Old appliances must not be disposed of with household waste!

Batteries and rechargeable batteries must not be disposed of with household waste!

According to the European Guideline 2012/19/EU, power tools that are no longer usable, and according to the European Guideline 2006/66/EC, defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

12. EC declaration

	Konformitätserklärung / Declaration of Conformity	Seite / Page 1 von 1	
		Produktgruppe / Product group: IDAL	
		Revisionsstand / Revision status: --	Revisions-Datum / Revision date: 01.03.2018
<small>Alle Rechte vorbehalten. Ausgabe im Druck nur mit Genehmigung von GLS/GR. All rights reserved. Copies for third parties only by permission of GLS/GR/MSD. Tous droits réservés. Toute copies à des tiers sont soumises à la permission de GLS/GR/MSD.</small>			

Wir, die HENKE-SASS, WOLF GmbH, Keltenstrasse 1, 78532 Tuttlingen erklären in alleiniger Verantwortung, die Übereinstimmung mit den folgenden Richtlinien:

- EMV-Richtlinie 2014/30/EU
- Maschinenrichtlinie 2006/42/EG
- Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten

We, the HENKE-SASS, WOLF GmbH, Keltenstrasse 1, 78532 Tuttlingen declare in our own responsibility the conformity to following directives:

- EMC-Directive 2014/30/EU
- Machinery Directive 2006/42/EG
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Diese Konformitätserklärung ist gültig für folgende Produkte:

This Declaration of Conformity is valid for following Products:

IDAL 3G

Die Produkte stimmen mit folgenden Normen überein:

The products are conforming to following standards:

EN ISO 12100:2010; DIN EN 55011:2011; DIN EN 61000-4-2:2009; DIN EN 61000-4-3:2011; DIN EN 61000-4-8:2010

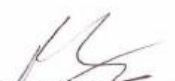
Für das Ladegerät/For the charger: EN 60335-2-29:2004 + A2:2010; EN 61000-6-3:2007 + A1:2011; EN 61000-6-1:2007

Diese Konformitätserklärung ist gültig bis 29.02.2020.

This Declaration of Conformity is valid until 29.02.2020.

Tuttlingen, den 01.03.2018

Ort und Datum der Ausstellung
Place and Date of issue


Peter Decker
Geschäftsleitung
Chief Executive Officer

HENKE-SASS, WOLF GMBH
Keltenstraße 1
78532 TUTTLINGEN
GERMANY
Tel. +49(0)7462/9466-0 · Fax 9466-5000

Firmenstempel
Company Stamp



Please contact your local MSD partner or Henke-Sass, Wolf GmbH (manufacturer of the IDAL® device) directly if you need any assistance or spare parts.

Henke-Sass, Wolf GmbH
Keltenstr. 1
78532 Tuttlingen; Germany

Contact Persons:

Adriana Weise
Tel. +49 (0)7461 / 9466 – 207
Fax: +49 (0)7461 / 9466 – 5208
Email:
Adriana.Weise@henkesasswolf.de

Lena Bacher
Tel. +49 (0)7461 / 9466 – 206
Fax: +49 (0)7461 / 9466 – 5208
Email:
Lena.Bacher@henkesasswolf.de