

Important safety and product information

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Important safety instructions



ATTENTION:

Read all safety and usage instructions before using smaXtec® products to avoid injury. Follow the Quickstart Guides! The documents are available at the Messenger Helpdesk.

CAUTION: Failure to observe this safety information may result in fire, electric shocks or other injuries or damage to system components.

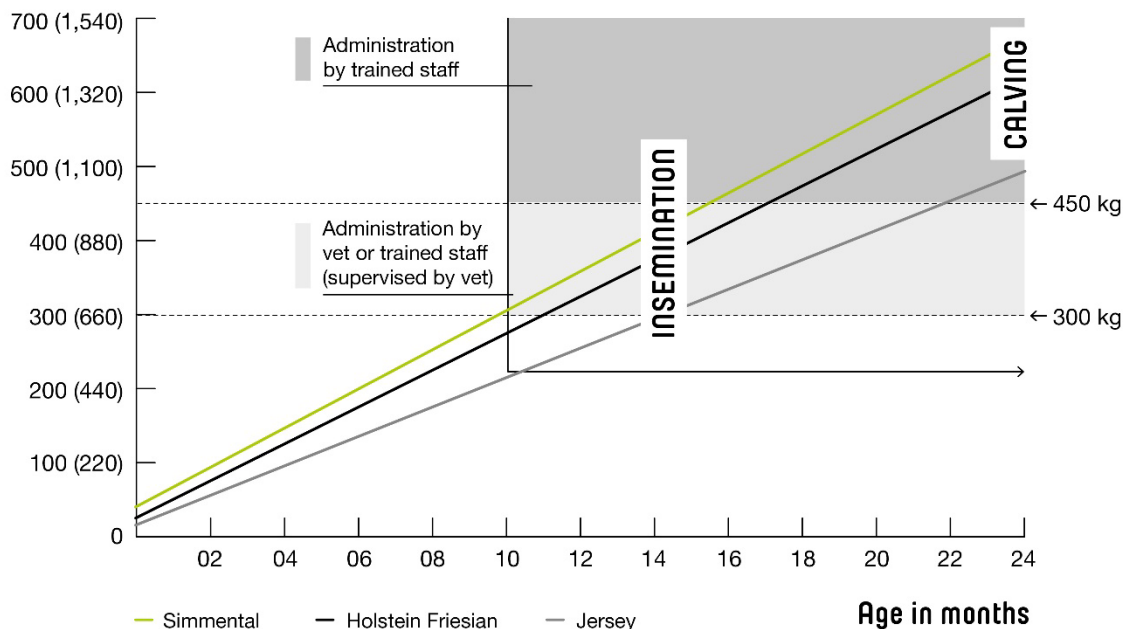
IMPORTANT NOTE ON BOLUS ADMINISTRATION

The smaXtec Classic Bolus and the smaXtec pH Bolus are only suitable for cattle. Under no circumstances may they be used for other animals or humans. The animals must have a minimum weight of 300 kg/660 pounds when the bolus is administered by veterinarians or specialists or 450 kg/1000 pounds when administered by trained personnel. Consult with your vet if necessary. The following chart provides more information on the age/weight development of different breeds.

The ideal time for bolus administration

! Before administering the bolus, please check the condition of each animal. If you are unsure, we highly recommend to consult your vet.

Weight, kg [lbs]



After administration, boluses should reach their position at the bottom of the reticulum as quickly as possible. For this reason, the fiber mat in the forestomach system should not be too dense. Cattle should therefore not be fed directly before bolus administration.

GENERAL SAFETY INSTRUCTIONS FOR THE DEVICES

Potentially explosive areas:

Do not use the smaXtec pH Bolus, smaXtec Classic Bolus, smaXtec Climate Sensor and the smaXtec Base Station in a potentially explosive area, for example in a petrol station area, or in areas where the air contains chemicals or particles (e.g. grain, dust or metal dust). Observe all signs and instructions.

High-risk activities:

These devices must not be used if the failure of the devices could lead to death, injury or serious environmental damage.

Using plugs and connections

Never attempt to force a plug into a connection. Check whether there are any foreign objects in the connection. If the plug cannot be connected easily, it is probably not suitable for this connection. Make sure that the plug and connection match and that you have correctly aligned the plug with the connection.

Handling the devices smaXtec pH Bolus, smaXtec Classic Bolus, smaXtec Climate Sensor, smaXtec Base Station

Do not drop the devices. Do not disassemble, open, break or bend the devices listed. Do not throw any of the appliances into an open fire and do not paint them. Do not heat the appliances in a microwave or oven and do not insert any objects into the interior of the listed appliances.

Safety instructions regarding direct sunlight - smaXtec pH Bolus, smaXtec Classic Bolus, smaXtec Climate Sensor, smaXtec Base Station devices

Ensure that the listed devices are not exposed to excessive moisture and extreme temperatures. Do not leave the devices in a vehicle or in other places where the temperature can rise above 60°C (110°F), such as on the dashboard of a car, on a window sill or behind a pane of glass that is directly exposed to the sun or very strong UV light, for long periods of time. This can damage the devices or the vehicle and overheat the battery.

Using the supplied magnet

A neodymium magnet is installed in the magnet supplied.

Please note that magnetic fields can erase data carriers (floppy disks, hard disks, USB sticks, digital cameras, cheque cards, audio and video cassettes) and affect or destroy electronic and mechanical components, e.g. pacemakers, monitors, compasses, counters, etc.

Always observe the safety distances specified by the manufacturer.

However, always maintain a safety distance of approx. 1 meter (3.28 ft).

Chipping or splintering is not possible as the magnet is built into a metal pot. Please also ensure that the magnet does not fall into the hands of children, as these magnets can easily be swallowed.



USING THE SMAXTEC BASE STATION



Important note: Please observe all safety regulations regarding electrical devices and installations. Before making any connections, make sure that the power supply unit is not connected to the mains.

Only use the power supply unit supplied. If problems occur, please contact your dealer or smaXtec directly. This product is intended to be operated with power from the supplied power supply unit. Any other use may be dangerous and may invalidate any warranty claims for this product. Only use approved accessories. Do not connect incompatible products or unsuitable accessories. Protect the mains cable from mechanical stress.



Attention: For use in cowsheds, the use of a special network cable is recommended to ensure functionality even under the conditions prevailing in the stable (waterproofness of the smaXtec Base Station).

This cable is available from smaXtec or from your dealer. However, it is also possible to connect the smaXtec Base Station to your network using a normal network cable if the smaXtec Base Station is not located in the wet area/outdoor area of the barn.

Safety precautions for the power supply unit supplied with the smaXtec Base Station

Use a suitable external power source. Only use a power source for the smaXtec Base Station that is suitable for the electrical values specified on the label. If you are not sure what type of power source is required, contact an authorized service provider or your local power company.

Protection against liquids and weathering of the smaXtec Base Station power supply unit

Do not use the power supply unit of the smaXtec Base Station in the rain, near sinks or in other damp environments. The power supply unit itself is not subject to any IP standard with regard to water protection, i.e. the power supply unit must not be exposed to moisture in any way. Make sure that no liquids get onto or into the power supply unit of the smaXtec Base Station. If the power supply unit of the smaXtec Base Station has been exposed to moisture, disconnect all connected cables from the adapter or the power supply unit from the socket.

HANDLING THE BATTERIES

Handle batteries with care - smaXtec pH Bolus, smaXtec Classic Bolus, smaXtec Climate Sensor

The smaXtec boluses contains a lithium metal battery and the smaXtec Climate Sensor contains two alkaline batteries. If the battery is not handled properly, there is a risk of fire and burns. Do not attempt to open or repair the battery in the smaXtec pH Bolus, smaXtec Classic Bolus and smaXtec Climate Sensor. Do not disassemble, destroy, puncture, short-circuit, throw into fire or water or expose to temperatures exceeding 60°C (110°F).

CLEANING INSTRUCTIONS AND DISINFECTION

smaXtec pH Bolus and smaXtec Classic Bolus

Depending on their composition, disinfectants can damage the plastic housing of the smaXtec boluses. Caution is advised with some products that contain aldehydes, phenols, amines, xylene, toluene and acetone as active ingredients. However, it should be noted that the plastic is compatible with a large proportion of commercially available disinfectants. For more details and information on a compatible disinfectant, please ask at support@smaxtec.com.

HANDLING AND USE OF THE BUFFER SOLUTION SUPPLIED WITH THE SMAXTEC PH BOLUS

(EXCERPTS FROM THE MANUFACTURER'S SAFETY DATA SHEET)

First aid measures:

General information: No special measures required.

After inhalation: Supply fresh air, consult a doctor in case of complaints.

After skin contact: In general, the product is not irritating to the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist, consult a doctor.

ACCEPTABLE TEMPERATURE RANGE FOR THE SMAXTEC PH BOLUS AND THE SUPPLIED BUFFER SOLUTION, THE SMAXTEC CLASSIC BOLUS AND SMAXTEC CLIMATE SENSOR

Only use the smaXtec pH Bolus / smaXtec Classic Bolus in a temperature range between 20 °C and 50 °C (68 °F and 122 °F). Battery life may be shortened at low temperatures. Store the packaged smaXtec pH Bolus including Buffer Solution, the smaXtec Classic Bolus and smaXtec Climate Sensor in a temperature range between 5 °C and 25 °C (41 °F and 77 °F).

INTERFERENCE WITH PACEMAKERS AND OTHER MEDICAL DEVICES

Possible faults

Radio frequency (RF) energy from mobile devices can interact with some electronic devices. This is electromagnetic interference (EMI). The FDA (US Food and Drug Administration) helped to develop a detailed test method for measuring the EMI of implants, pacemakers and defibrillators from mobile devices. This test procedure is part of the association "Advancement of Medical Instrumentation (AAMI)". This standard enables manufacturers to ensure that pacemakers and defibrillators are protected against electromagnetic interference from mobile devices.

The FDA continues to monitor wireless devices for interactions with other medical devices. If harmful interference occurs, the FDA will evaluate the interference and work to resolve the problem.

Precautionary measures for pacemaker wearers

When EMI occurs, it can affect a pacemaker in three ways:

- Stopping the stimulating impulses emitted by the pacemaker to regulate the heart rhythm.
- Causes the pacemaker to emit pulses irregularly.
- Causes the pacemaker to ignore the heart rhythm and emit pulses at a fixed frequency.

According to current research, cell phone devices do not pose a significant health problem for most pacemaker users. However, people with pacemakers may wish to take simple precautions to ensure that the device does not cause problems for the pacemaker.

- Hold the device on the opposite side of the body to the pacemaker to create additional distance between the two.
- Avoid placing a switched-on device next to the pacemaker (for example, do not carry the device in a shirt or jacket pocket directly above the pacemaker).

Disposal instructions

DISCHARGE

As the manufacturer of smaXtec products, smaXtec participates in the legally prescribed disposal systems of the respective European location and fulfills all obligations of the manufacturer that arise in the context of disposal. In Austria, the obligation is discharged via the ARA. At the other locations, smaXtec participates in the corresponding de-obligation programs. smaXtec does not guarantee that its de-obligation efforts cover all countries that do not belong to the direct markets. The manufacturer's participation in the de-pollution system does not release the customer from the obligation to dispose of used or expired smaXtec products properly.

DISPOSAL OF THE BUFFER SOLUTION SUPPLIED WITH THE SMAXTEC PH BOLUS

Recommendation: small quantities can be disposed of with household waste.

DISPOSAL AND RECYCLING OF THE SMAXTEC PH BOLUS, SMAXTEC CLASSIC BOLUS, SMAXTEC CLIMATE SENSOR AND THE SMAXTEC BASE STATION

These products must be disposed of in accordance with the applicable environmental guidelines and regulations of the relevant national or regional authorities. As the smaXtec pH Bolus, smaXtec Classic Bolus, smaXtec Climate Sensor and the smaXtec Base Station contain electronic components and batteries, these must be disposed of separately from household waste.

The customer is responsible for ensuring that a used smaXtec product is disposed of properly and in accordance with the relevant national regulations. If necessary, contact the local authorities for information on disposal and recycling options.

INFORMATION ON THE DISPOSAL OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT BY USERS IN THE EUROPEAN UNION:



The above symbol indicates that this product must be disposed of separately from household waste in accordance with the applicable legal regulations. Take this product to an official collection point for disposal. At some collection points, products can be handed in for disposal free of charge. Separate collection and recycling conserves raw material reserves and ensures that all regulations for the protection of health and the environment are observed when recycling the product.

Approval information

LICENSE INFORMATION FCC AND IC (US, CDN) VALID FOR THE SMAXTEC PRODUCTS AND THE SUPPLIED ACCESSORIES

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

This device complies with Part 15 of the FCC Rules.

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.

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.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. The fonctionnement est soumis aux deux conditions suivantes:

- (1) Cet appareil ne doit pas causer d'interférence
- (2) Cet appareil doit accepter toutes les interférences, y compris celles susceptibles de provoquer un fonctionnement indésirable de l'appareil.



IMPORTANT NOTE: To comply with FCC radio frequency emission requirements, devices must be installed so that they are at least 20cm (7.87 inches) away from people.

IMPORTANT NOTE:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum separation distance of 20 cm (7.87 in) between the radiator & your body.

IMPORTANT NOTE:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum separation distance of 20 cm (7.87 in) between the radiator & your body.

ADDITIONAL INFORMATION - SMAXTEC BASE STATION (KERLINK)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

This radio transmitter 20637-KLKWIS915 has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Le présent émetteur radio 20637-KLKWIS915 a été approuvé par Innovation, Sciences et Développement économique Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal. Les types d'antenne non inclus dans cette liste, et dont le gain est supérieur au gain maximal indiqué pour tout type figurant sur la liste, sont strictement interdits pour l'exploitation de l'émetteur.

External antenna used: gain 3dBi or 6dBi, dipole, 50 Ω , vertical, omnidirectional.

ADDITIONAL INFORMATION - SMAXTEC BASE STATION (MULTITECH)

The WEEE Directive obliges manufacturers, distributors, retailers and importers based in the EU to take back electronic products at the end of their lifespan. A sister directive, ROHS (Restriction of Hazardous Substances), supplements the WEEE Directive by prohibiting the presence of certain hazardous substances in products at the design stage. EU-based manufacturers, distributors, retailers and importers are obliged to finance the costs of recovery from municipal collection points, reuse and recycling in certain percentages in accordance with WEEE requirements.

RESTRICTION OF HAZARDOUS SUBSTANCES (ROHS) - CERTIFICATE OF CONFORMITY 2015/863

Multi-Tech Systems, Inc. confirms that its embedded products comply with the chemical concentration limits set out in Directive 2015/863 of the European Parliament (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment - RoHS 3).

REACH SVHC declaration registration of substances.

Multi-Tech Systems, Inc. confirms that none of its products or packaging contain any of the Substances of Very High Concern (SVHC) on the REACH Candidate List in a concentration above the permitted limit of 0.1% by weight. Further regulatory documents on the current REACH SVHC declaration can be found at

<https://www.multitech.com/support/support>

NOTICE REGARDING COMPLIANCE WITH EU REQUIREMENTS FOR RF EXPOSURE

This device also meets the European RF exposure requirements of EN 62311. If an alternate antenna is used, consult user documentation for required antenna specifications.

Compliance of the device with the EU, rules regarding RF Exposure was established and is given with the maximum antenna gain as specified above for a minimum distance of 30 cm between the devices radiating structures (the antenna) and the body of users. Qualification for distances closer than 30 cm (portable operation) would require re-certification.

Wireless devices could generate radiation. Other nearby electronic devices, like microwave ovens, may also generate additional radiation to the user causing a higher level of RF exposure.

MultiTech declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The declaration of conformity may be downloaded at <https://www.multitech.com/red>.

NOTICE FROM THE EUROPEAN UNION - PRODUCT CONFORMITY

smaXtec's own products and products sold by smaXtec with a CE mark comply with the RED Directive 2014/53/EU. Compliance with this directive implies conformity with the following European standards:

EN 62368-1:2014 Audio/video, information and communication technology equipment Part 1: Safety requirements Electromagnetic compatibility and radio spectrum Matters (ERM); Part 1: Common technical requirements

EN 62479:2010 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

EN 301 489-1 V2.2.3 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-3 V2.1.1 Electromagnetic compatibility and Radio spectrum Matters (ERM), Electromagnetic Compatibility (EMC) standard for radio equipment and services, -- Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz.

EN 300 220-2 V3.1.1 Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz; Part 2: Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/ 53/EU for non-specific radio equipment.

EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.