

smaXtec

The health management system
for modern dairy farms.



FOR FORWARD THINKERS

Gold standard: internal
body temperature

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Discover hidden
potential on your farm

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Expert consultation
at the highest level

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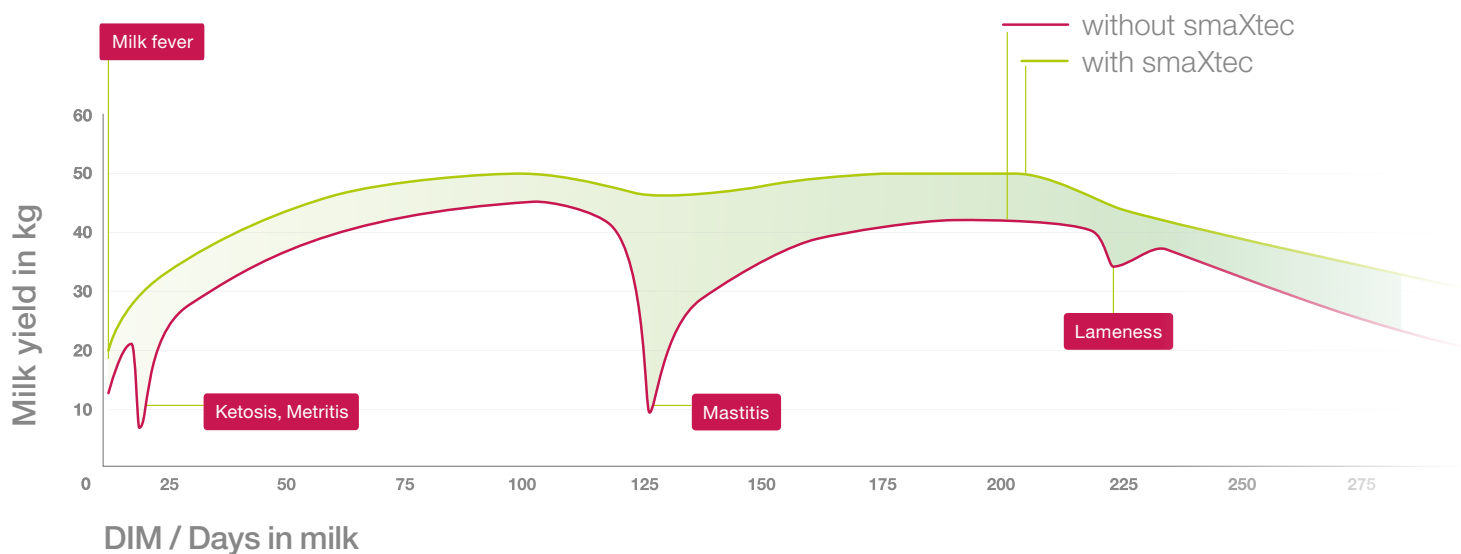
Together, we discover

YOUR HIDDEN POTENTIAL!

Your success is our priority.

With years of experience, we know that every herd holds more potential than meets the eye. We help you uncover that potential and turn it into measurable results.

With smaXtec, you benefit not only from a globally unique technology, but also from sound advice provided by our experts. Together, we help you optimise your farm step by step – regardless of where you are today.



As a first step, you improve animal health and profitability through preventive health management. The lactation curve clearly shows the impact of taking action at the earliest possible stage.

In the second step, you use the data from the smaXtec system, AI-supported analysis and expert guidance from our team to identify the next opportunities for optimisation on your farm – for example in the areas of reproduction, feeding, transition management or work processes. Together with your smaXtec consultant, you uncover hidden potential on your farm and create the foundation for long-term success.

Your partner for real

FARM SUCCESS

Great consultancy starts with truly understanding your farm. With smaXtec, you have a partner by your side who listens, thinks ahead and supports you every step of the way. Together, we develop solutions that fit the way you work – practical, sustainable and built on true partnership.

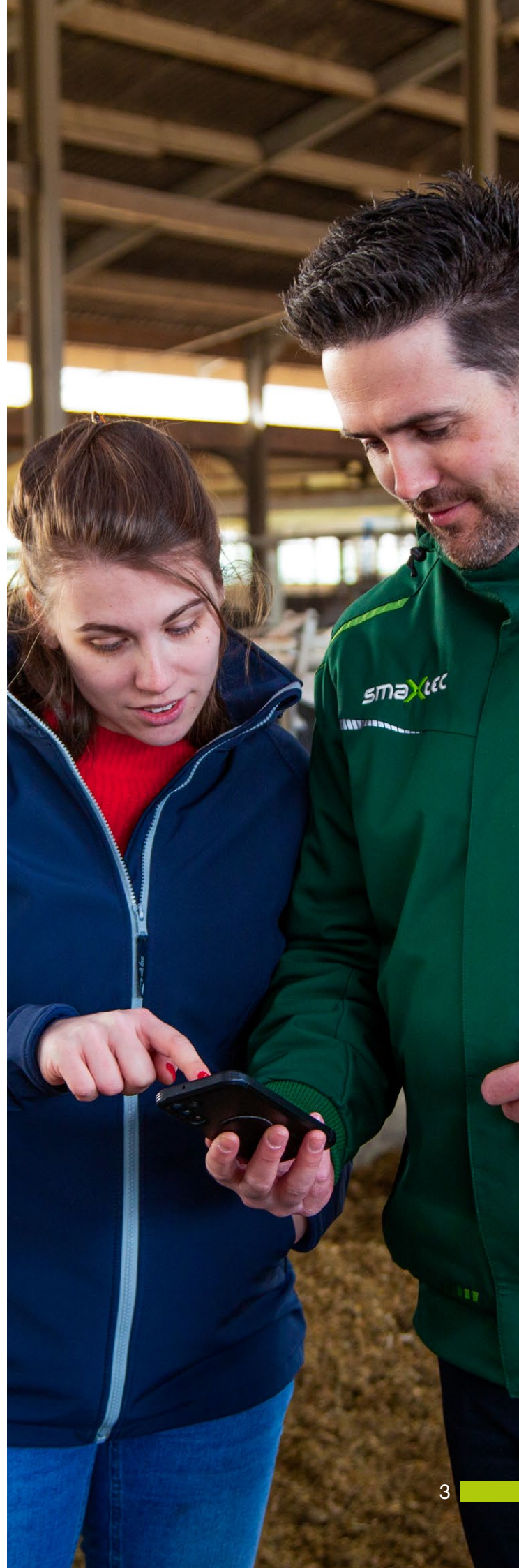
A consultancy team with hands-on farm experience

Our consultancy team includes veterinarians, agricultural scientists, herd managers and dairy farmers – many of whom have been using smaXtec on their own farms for years. They understand the challenges of dairy farming from first-hand experience and know what works in day-to-day practice. This expertise is reflected directly in our consultancy, product development and training programmes.

Every farm is different. That is why we analyse your current situation together and develop individual recommendations tailored to your goals and the way you work. No one-size-fits-all approach – just solutions tailored to your farm.

With your personal smaXtec consultant, you always have a direct line to smaXtec – no intermediaries, no unnecessary layers. Whenever you have a question or need support, we are there to help quickly and efficiently.

Together, we improve the way you manage your farm. The result: more efficient processes, healthier cows through preventive health management, and a more profitable farm.



THE BEST INSIGHTS COME FROM WITHIN

Making the right decisions starts with having the right information. smaXtec provides unique insights into the health of your cows – insights that would otherwise remain hidden.



JON CLEAVE
180 cows

“The ability of smaXtec to continually monitor the cow’s temperature and give you an early health alert to that is key. It gives you the opportunity to focus on that one animal to give her a little bit of extra attention to make sure that she’s okay.”

The gold standard:

INTERNAL BODY TEMPERATURE

If you want to manage the health of your herd preventively, you need to measure internal body temperature. Only by measuring internal body temperature you can detect diseases at the very first immune response. This valuable head start gives you greater flexibility to take action.

The most common diseases in dairy cows first become apparent through subtle changes in internal body temperature, including mastitis, metritis, ketosis, and milk fever.

This is exactly where smaXtec makes the difference. Only the highly precise, continuous measurement of internal body temperature enables you to detect even the smallest changes as early as possible. This creates the foundation for truly preventive health management on your farm.

Identify problems before they become visible or costly

smaXtec customers do not wait until a cow is clinically sick. They act at the first signs of an immune response. With smaXtec, you can take action earlier.

Working together with your smaXtec advisor, you learn to understand disease patterns and their root causes, identify how they are connected, and translate these insights into targeted actions for your farm. This helps you reduce risks sustainably and improve herd health, performance, and planning reliability. **In daily work, this means less firefighting, healthier cows, less stress, and more success.**

Only possible with
internal body temperature

Unique features & benefits

Internal body temperature measurement is the foundation for many features that are only available with smaXtec.

- ✓ Detect diseases at the earliest possible stage, often while they are still subclinical, long before visible symptoms or changes in feed intake or rumination become apparent.
- ✓ Know how much and how often your cows drink, allowing you to monitor a key indicator of milk production and animal health.
- ✓ Use group temperature insights to identify changes in feeding management, such as feed heating at the feed bunk.
- ✓ Receive a calving alert approximately 15 hours before calving, giving you sufficient time to prepare and provide assistance if needed.

Learn more on the following pages in the temperature information boxes.

Precision that pays off!
± 0,01°C accuracy

at a glance

1 smaXtec bolus

2 Base Station

3 Climate Sensor

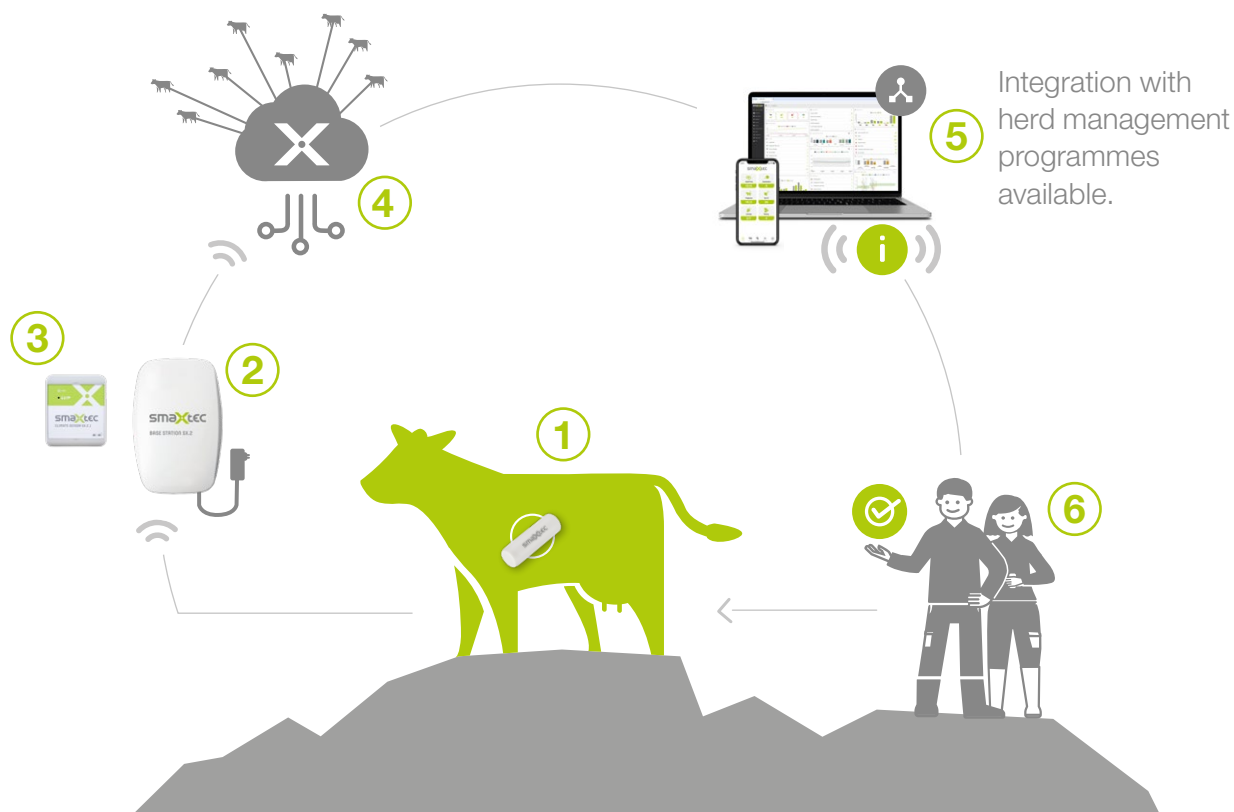


4 smaXtec Cloud

5 smaXtec Web & App

6 Consultancy

Integration with herd management programmes available.

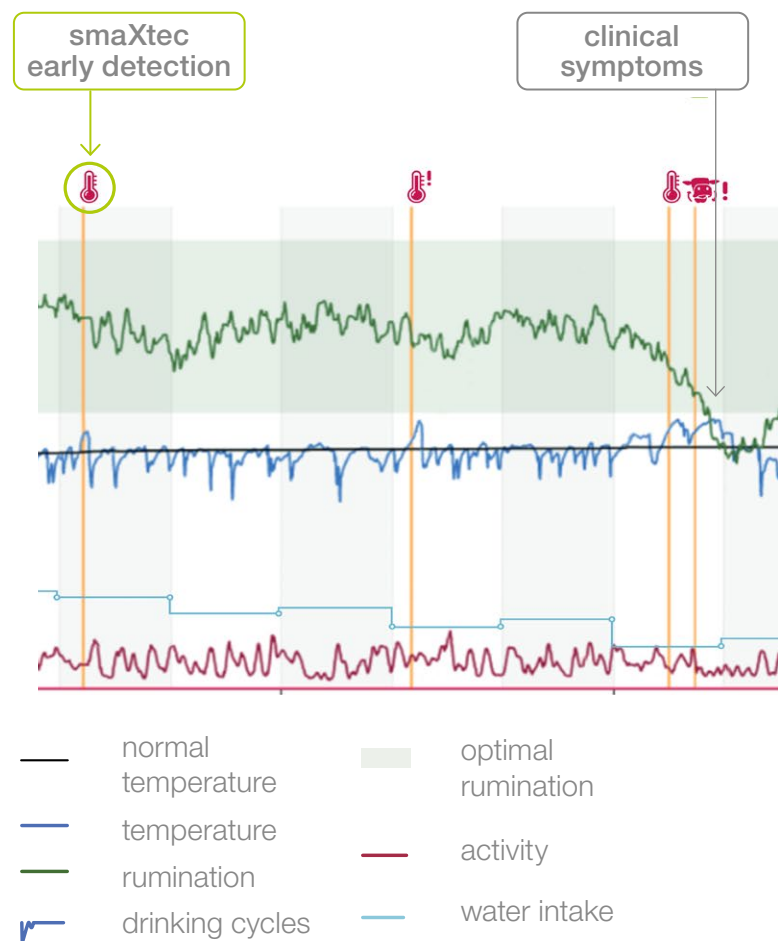


EARLY DETECTION

as a key success factor

Imagine being able to detect diseases at the very first immune response and act so early that severe disease cases and the use of antibiotics can often be avoided. With smaXtec, this becomes reality.

Preventive health management strengthens your farm in the long run. With smaXtec, you detect diseases in their early development and can prevent clinical cases or secondary complications. We provide the information you need to make informed decisions. In return, you gain greater confidence in your decisions, more predictability, and noticeable relief in your daily work.



Only possible with
internal body temperature

True early detection

That means taking action while the cow still appears healthy. Because beneath the surface the first signs of disease may already be developing. Internal body temperature changes long before clinical symptoms, behavioural changes, or drops in performance become visible. And only smaXtec measures it for you.

With smaXtec, you reduce disease cases from day one and benefit from:

- ✓ reduced antibiotic use
- ✓ longer productive lifespans
- ✓ no withdrawal periods
- ✓ fewer performance losses
- ✓ greater predictability in day-to-day farm management

Cattle Specialist Consultant
at smaXtec

DANIELA MARTHOLD, PHD

Premium Feeding Management

The smaXtec pH bolus



With the smaXtec pH bolus, you continuously monitor pH and identify both risks and opportunities for optimisation in your feeding management. This enables you to better assess risks such as ruminal acidosis and optimise rations according to your cows' needs. The result: a herd that realises more of its full potential.

Your benefits at a glance:

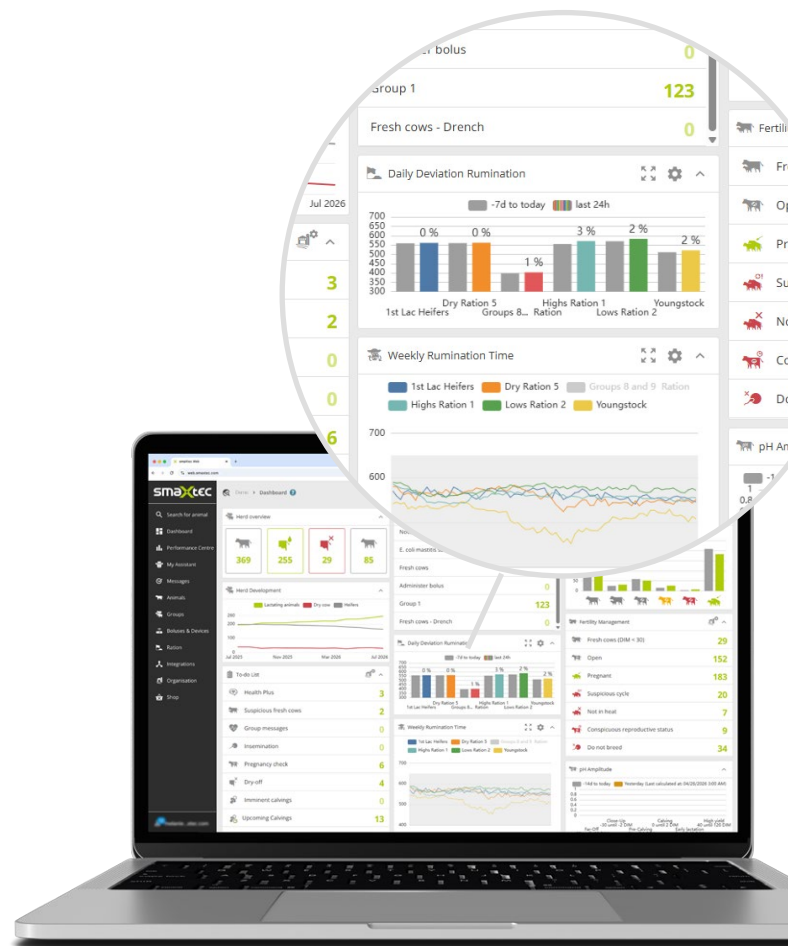
- ✓ Early detection of feeding-related issues
- ✓ Identify opportunities to optimise your ration
- ✓ Better assessment of rumen health
- ✓ Improved feed efficiency
- ✓ Increased milk yield and improved animal health



UNDERSTAND FEEDING. INCREASE PERFORMANCE.

Optimised feeding management is key to a high-performing herd. Only farmers who have full control over their feeding management can unlock the full potential of their herd.

Even small changes in dry matter, feed quality, or feed availability can have a significant impact on the performance and health of your herd. With smaXtec, you detect these changes as early as possible, allowing you to make targeted adjustments and significantly improve herd performance.



The Feeding Tool

With the smaXtec Feeding Tool, you can see at a glance how rumination is developing across your feeding groups. Deviations, trends, and daily changes become visible immediately, giving you the insights you need to make informed decisions.

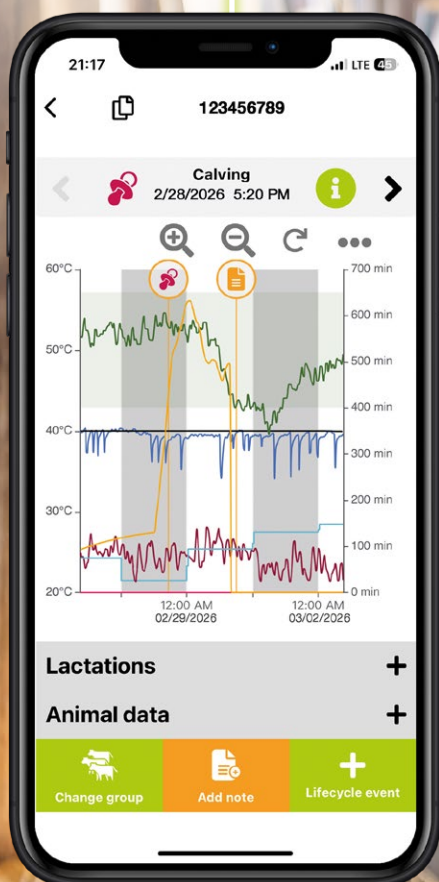
Only possible with
body temperature

Detect feed heating in feed troughs

Internal body temperature is not only a key parameter at the individual cow level. smaXtec also visualises it at herd level, helping you identify developments relevant to feeding management.

For example, you can detect irregularities following ration changes or identify early signs of feed heating in feed troughs, allowing you to investigate them further.

Upcoming calving



~15 hours later

Everything under control

FROM HEAT DETECTION TO CALVING

Reliable heat detection

smaXtec detects heats reliably and calculates the optimal insemination time. This helps you improve key reproductive performance indicators such as calving interval and insemination index.

Early detection of fertility issues

Cows with unusual cycle patterns are automatically identified and displayed in a clear overview. This allows you to carry out targeted checks, detect fertility issues at an early stage and respond more quickly.

Early abortion detection

You stay in control throughout the entire pregnancy. Unusual patterns that may indicate an abortion are automatically detected and clearly displayed. This allows you to check affected animals early and take action when needed.

Why our customers no longer want to manage reproduction without smaXtec:

- ✓ Reliable heat detection
- ✓ Optimal insemination window
- ✓ Detection of fertility issues
- ✓ Notification approximately 15 hours before calving

Only possible with
internal body temperature

Calving Alerts for a Strong Start to Lactation

Shortly before calving, the cow undergoes hormonal changes, her calcium requirements increase, and her body temperature drops slightly. Thanks to continuously monitoring the internal body temperature, smaXtec detects this physiological change and alerts you to the upcoming calving approximately 15 hours in advance.

This gives you plenty of time to prepare for a well-managed calving. At the same time, the cow's temperature profile can indicate whether she is able to meet her increasing calcium requirements on her own, or whether she needs support at an early stage. With smaXtec, you can provide targeted support at exactly the right time.

- ✓ Efficient use of the calving area
- ✓ Indication of difficult calvings or twin births
- ✓ Early abortion detection
- ✓ Continuous health data during the critical period around calving
- ✓ Sustainable improvement of reproductive performance and profitability

The foundation for a successful start to lactation:

THE TRANSITION PHASE

The transition phase is critical to the health and performance of your cows. That is why close monitoring is especially crucial during this period. smaXtec supports your cows from dry-off through calving and into the fresh cow period, providing the right data to help you make informed decisions.

Only possible with
internal body temperature

Continuous temperature monitoring when it matters most

On many dairy farms, it is common practice to check the body temperature of fresh cows. In practice, measurements are only taken at specific points in time. They are less precise, and short-term temperature changes often go unnoticed.

Dry cows are often housed separately and monitored less closely during daily routines. As a result, diseases are frequently not detected until clinical symptoms appear.

smaXtec continuously measures internal body temperature with unmatched precision – across all animals. This ensures that nothing goes unnoticed during these critical weeks.

Dry period

Dry cows are often monitored less closely. With smaXtec, you maintain full visibility throughout this critical phase:

- Early detection of metabolic challenges
- Detection of diseases such as dry cow mastitis
- A stronger foundation for calving and the start of lactation

Calving

smaXtec provides a calving alert approximately 15 hours before calving and closely monitors the critical period around calving. Your benefits:

- Better planning of calving preparations
- Optimal timing for milk fever prevention
- Early warning signs of potential complications

Fresh cows

In this critical phase, continuous monitoring enables you to detect metabolic disorders before clinical symptoms appear. Your benefits at a glance:

- Early detection of metabolic issues
- Intensive health monitoring
- Measurement of water intake and rumination via rumen motility



AFTER PURCHASE

GROWING SUCCESS TOGETHER

Success is not created by technology alone – partnership is what makes the difference. That is why we continue to support you long after smaXtec has been implemented on your farm: personally, with sound expertise and a long-term commitment to your success.

Personalised consultancy

Our consultancy team provides comprehensive, long-term support in animal health and farm management. Together, we integrate smaXtec into your daily operations, optimise processes, and develop solutions tailored to your farm.

Digital smaXtec Academy

The smaXtec Academy is your digital learning platform. Here, you will find exclusive online courses, webinars and customer training sessions – practical, hands-on, and tailored to your needs.

Most importantly, you can learn whenever it fits into your daily routine. Interactive formats enable direct exchange with presenters and fellow participants.

The content is developed in collaboration with our internal team of experts as well as external veterinarians, feeding specialists, and agricultural scientists.

Farm Days

At our Farm Days, you meet fellow smaXtec users in person. You gain insights into different farm strategies, discuss practical experiences, and benefit from peer-to-peer exchange. External industry experts also regularly contribute valuable insights and expertise to the programme.

Did you know?

smaXtec detects whether a cage magnet has already been administered.

MORE INSIGHT. LESS STRESS. EVERY DAY.

The Digital Assistant from smaXtec

Modern dairy farming requires structure, fast decision-making, and smooth teamwork. The Digital Assistant from smaXtec and the smaXtec Performance Centre help you achieve exactly that.

Your Digital Assistant automatically categorises cows according to your individual criteria. You decide which cows belong in which list – the system then creates farm-specific task lists automatically. For example, you can assign all cows with a suspected risk of milk fever or mastitis to dedicated lists. Tasks are clearly prioritised and displayed in a structured overview, ensuring that everyone on the team always knows where action is needed – even when staff changes.

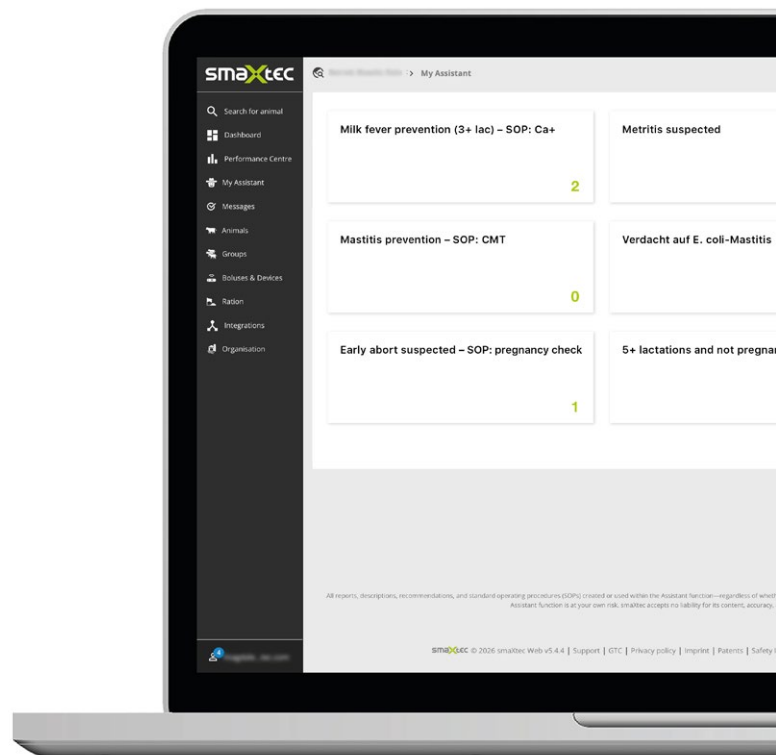
For each list, you can also define SOPs (Standard Operating Procedures). This ensures that all employees respond consistently and that measures are implemented reliably across the farm.



THOMAS LÜCK
3,400 cows



“With the Digital Assistant, we can group cows by issue and send the right team member exactly where support is needed. For a large farm like ours, that makes day-to-day management much easier.”



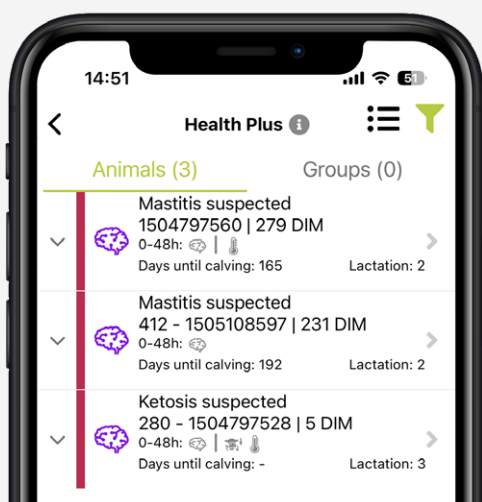
Your benefits at a glance:

- ✓ Farm-specific task lists
- ✓ Define criteria once – cows are assigned automatically
- ✓ Create and store your own SOPs
- ✓ Clear task allocation and prioritisation within the team
- ✓ Transparency and control – even when staff changes
- ✓ Efficient use of time and resources
- ✓ Continuous monitoring of farm performance

Suspicion: Mastitis

What is TruAdvice®?

TruAdvice® provides AI-supported alerts for suspected mastitis, milk fever, and ketosis. Artificial intelligence analyses data from more than 1 million cows and identifies common disease patterns in their early development. For you, this means the ability to take action as early as possible and maintain healthier herds.



EARLY DETECTION GIVES YOU A HEAD START

With smaXtec, farmers detect diseases at the very first immune response – long before clinical symptoms become visible. This enables preventive action and helps avoid severe disease cases and losses.

Mastitis

OSAM project shows:
smaXtec detects **93 %**
of mastitis cases



“Early mastitis intervention has been invaluable. We approximate that we identify subclinical cows around five days earlier using smaXtec temperature alerts when they potentially would have been clinical cases prior to boluses. It’s been very pre-emptive.”



SARAH NEILSON
400 cows

Milk fever

Study confirms: smaXtec
identifies **5 out of 6**
at-risk cows



“When you’re getting an alert for a cow that could be getting milk fever, you’re getting a temperature decrease alert. Then we’re able to get calcium into the cow and help her early. With smaXtec, we had no milk fever cases this year.”



SEAN TEEHAN
90 cows

Pneumonia

“With smaXtec we’ve picked up two cows that had pneumonia early. The system reported issues before they were visually sick with it. When the vet looked at them, it was the first thing that he said. So I suppose like in everything, acting early is key.”



SHANE CORRIGAN
80 cows

Ketosis

“The smaXtec system has reliably alerted us to ketosis in the first 50 days of lactation. We were therefore able to feed glycole through the robots and that can put the problem right. Before smaXtec, we would not even have known about that.”



ROB YARWOOD
250 cows

TECHNOLOGY

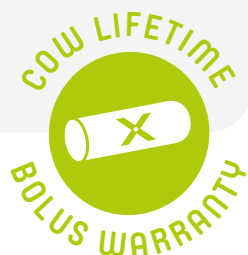
that delivers results

smaXtec stands for leading technology in dairy cow health management. As the global technology leader, we provide a uniquely comprehensive picture of every cow – and we continue to innovate every day to deliver even more valuable insights.

Only possible with
internal body temperature

Know how much each cow drinks

smaXtec is the only system worldwide that enables you to monitor individual water intake and drinking patterns at both the cow and herd level. Unusual drinking behaviour caused, for example, by dirty or insufficient water troughs, heat stress, or stray voltage, is detected immediately, allowing you to take targeted action. The result: a healthier herd and more consistent milk production.



What makes smaXtec different?

- ✓ **Measured directly:** Based on data from inside the cow, not just externally observed behaviour.
- ✓ **Earliest possible detection:** Changes are identified at their source, before they become visible.
- ✓ **Better decisions:** Artificial intelligence and expert consulting turn data into actionable insights.
- ✓ **Faster action:** Early alerts help you address problems across health, feeding, heat stress, and herd management.
- ✓ **Continuously evolving:** Regular updates and new features ensure your smaXtec system keeps delivering even greater value over time.

Updates that go all the way to the cow

Through over-the-air updates, we can update even boluses that have already been administered.



Tested and certified
for rumen fluid
resistance:



*Image not to scale

THE SMAXTEC PERFORMANCE CENTRE

Successful herd management requires seeing the bigger picture. The smaXtec Performance Centre brings together your herd's key performance indicators in one place and makes trends visible over time. This allows you to see at an early stage where your farm stands, which measures are delivering results, and where there is further potential for improvement.

A Clear Overview for Better Decisions

In day-to-day farm management, alerts and task lists help you respond quickly to individual animals and prioritise tasks effectively. The smaXtec Performance Centre goes one step further: it presents your herd's key performance indicators in an easy-to-understand dashboard, including a retrospective of the past 12 months. This makes it easy to identify trends, track progress and understand changes over time.

Optionally, additional reproduction and performance metrics can be integrated into the smaXtec Performance Centre. This gives you an even more comprehensive overview of your farm in one place.

The smaXtec Performance Centre also provides the ideal basis for discussions with your smaXtec advisor. Together, you can review objective performance indicators, identify key opportunities for improvement and define targeted actions to enhance animal health, performance and profitability.

Your Benefits at a Glance

- ✓ Key herd performance indicators in one place
- ✓ Spot trends early
- ✓ Track progress over the past 12 months
- ✓ Evaluate the impact of management decisions objectively
- ✓ Optionally integrate reproduction and performance metrics
- ✓ Make the most of discussions with your smaXtec advisor



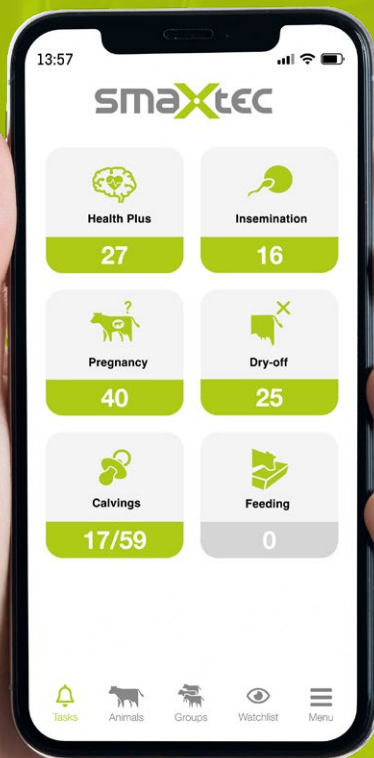
THINKING AHEAD PAYS OFF!

Simplify farm management

- Farm-specific task lists
- Automatic categorisation
- Overview of all key herd data

Increase profitability

- Higher lifetime production
- Less time spent on treatments
- More efficient and sustainable milk production



Improve herd health

Preventive health management through precise measurement of:

- Internal body temperature (± 0.01 °C accuracy)
- Water intake and drinking cycles
- Rumination measured via rumen motility

Boost reproduction

- Heat detection, including the optimal insemination window
- Calving alert (approx. 15 hours in advance)
- Detection of abortions

Optimise feeding

- Feeding Tool with ration groups
- Optional: pH measurement

Get the best system now!

AUSTRIA (HQ)

T +43 316 46 15 88
smaXtec animal care GmbH
Sandgasse 36/2
8010 Graz

UNITED KINGDOM

T +44 1629 380 780
10 Warren House
Deepdale Business Park
Bakewell
Derbyshire, DE45 1 GT

IRELAND

T +353 61 410 879
smaXtec Limited
4 Michael Street
Limerick, V94 V184