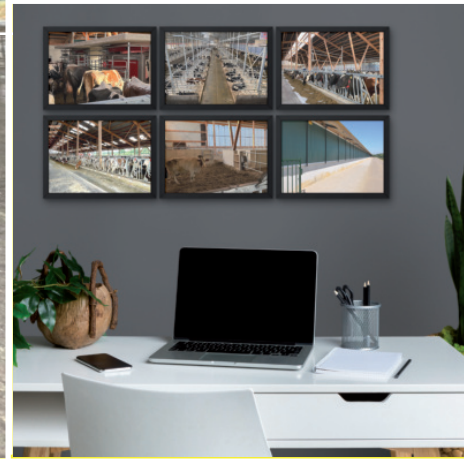


# Arntjen® Germany

Lock SBE system



No matter where you are, at the meadow, on the road or at home - You are in control!

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The new world  
in dairy farming





# SBE



**THE SMART SYSTEM  
FOR YOUR FARM**



# OVERVIEW

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# LOCK SBE

Natural. Digital.

**As a competence platform as well as innovation driver, Lock stands for positioning premium quality solutions. With LOCK SBE, we have created an all-encompassing, digital solution.**

In the field of agriculture, this intelligent, smart system from Lock is a major step into the future – for the benefit of humans, animals and plants. LOCK SBE serves to automate work processes to the greatest possible extent and conveniently control and monitor these from any location using a smartphone or tablet.

We support and advise you in every step of the way to the digitalization of your farm. This results in resource-saving farming, significantly reduced effort and, above all, far-reaching economic prospects.



# SMART BRICK



## Traditional. Future-oriented.

**Classic agriculture meets pioneer in digital transformation. This is the challenge of our time.  
But, with challenge comes opportunity.**

Whether growing your farm business, monitoring extreme weather, or first and foremost, supporting animal welfare, Lock's path-breaking farm management system is based on many years of experience in the positioning solutions sector. It meets the highest quality standards and offers endless possibilities.

# ENVIRONMENT

*The future  
of intelligence*



# SMART BRICK

**Modular. Customized. Flexible.**



Heating



Light



Camera



Ventilator



VariVent®

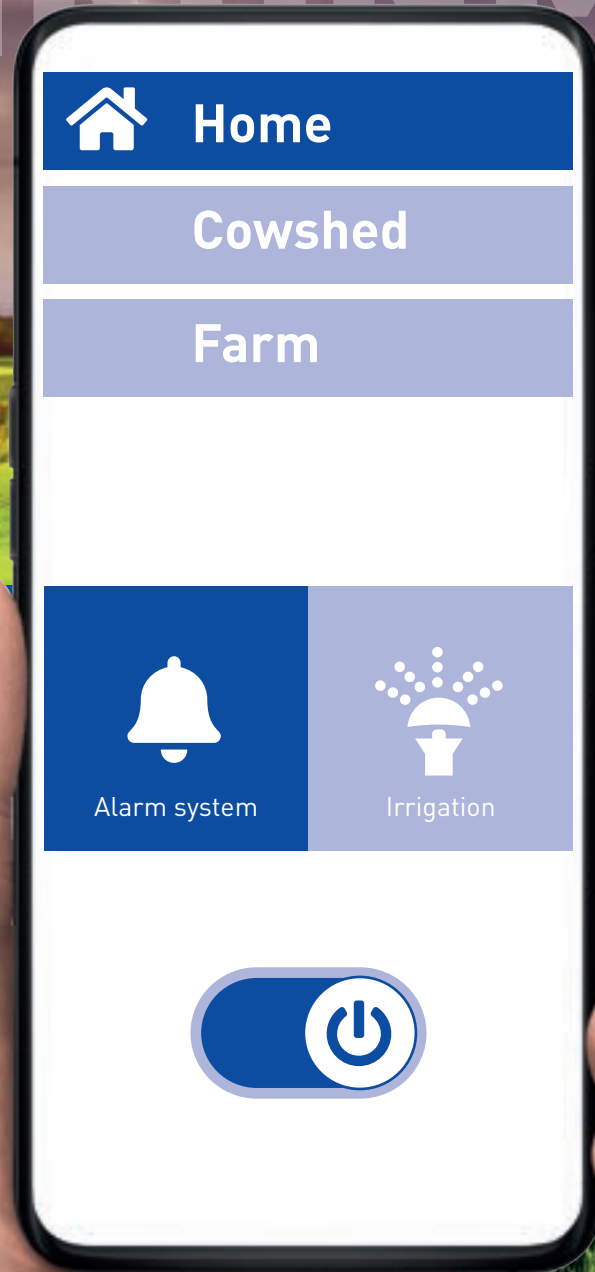
**The building blocks or “bricks” in your current environment include ventilation systems, lighting, ventilators, etc. With their connection to the SBE system, they become SmartBricks and can now be controlled conveniently using the LOCK SBE app on your smartphone or tablet.**

Even though our intelligent system can act independently and make recommendations based on data gathered by the sensors – you decide and make the appropriate settings. And, if you wish, your complete living environment can also be easily integrated into your intelligent digital system.

# ENVIRONMENT

*All in  
one hand.*

*From  
one hand.*



Access



Lock



Alarm system



Irrigation



Ventilation



# SMARTBRICK ENERGY M





# MANAGEMENT

**Intelligent energy management makes it possible to record all consumption and the effective use of gas, water and electricity.**

Peak loads for electricity are distributed to various actuators such as agitators or hot water production. Consumers are controlled based on demand and weather forecasts.



Water consumption meter  
20 l/min - 23.3 m<sup>3</sup>/h

Power consumption meter  
0 W - 70 kWh

Gas consumption meter  
0 W - 70 kWh

Energy monitoring  
P 59.94 kW - V 179.87 kWh

Energy manager  
100% Eigenverbrauch

Energyflow  
P 59.9 kWh - V 129.9 kWh

Fixed value counter light  
0 Wh - 0 Wh

Fixed value counter ventilation  
0 Wh - 0 Wh

Wellbox

Reset consumptionmeter

Electricity meter Generated  
59.9 kWh - 50.1 kWh

Electricity meter consumption  
70 kWh - 21.2 kWh



# SMARTBRICK



Irrigation

## IRRIGATION

Irrigation for the walkway or spray cooling can be controlled intelligently with various sensors and in combination with other actuators, e.g. fan, controlled.



Shading

## SHADING

Shading systems are used to ensure direct sunlight is avoided. The systems can also be controlled according to the positions of the sun.





VariVent®

## VENTILATION

Our VariVent systems are perfectly controlled by means of various indoor and outdoor sensors.



Camera

## CAMERA

Security around and in the building while maintaining an overview - that's what our camera systems offer. These are available as fixed, swivel and zoomable versions.



# SMART BRICK

SBE



## SENSORS

High-quality sensors measure precisely the current ambient conditions – for example, temperature, air humidity, ammonia content, fine dust, carbon dioxide and wind.

6°

Indoor temperature

## BRICKS

Bricks are your building blocks - for example light, heating, camera, ventilation, etc. They are controlled either manually, fully automatically, or coordinated with each other.



## BUILDING

The smart SBE system is a cross-industry modular solution that can be extended without problems – for example, office or private areas.



# ENVIRONMENT

**8** l/m<sup>2</sup>

Precipitation

**2400** ppm

Carbon dioxide

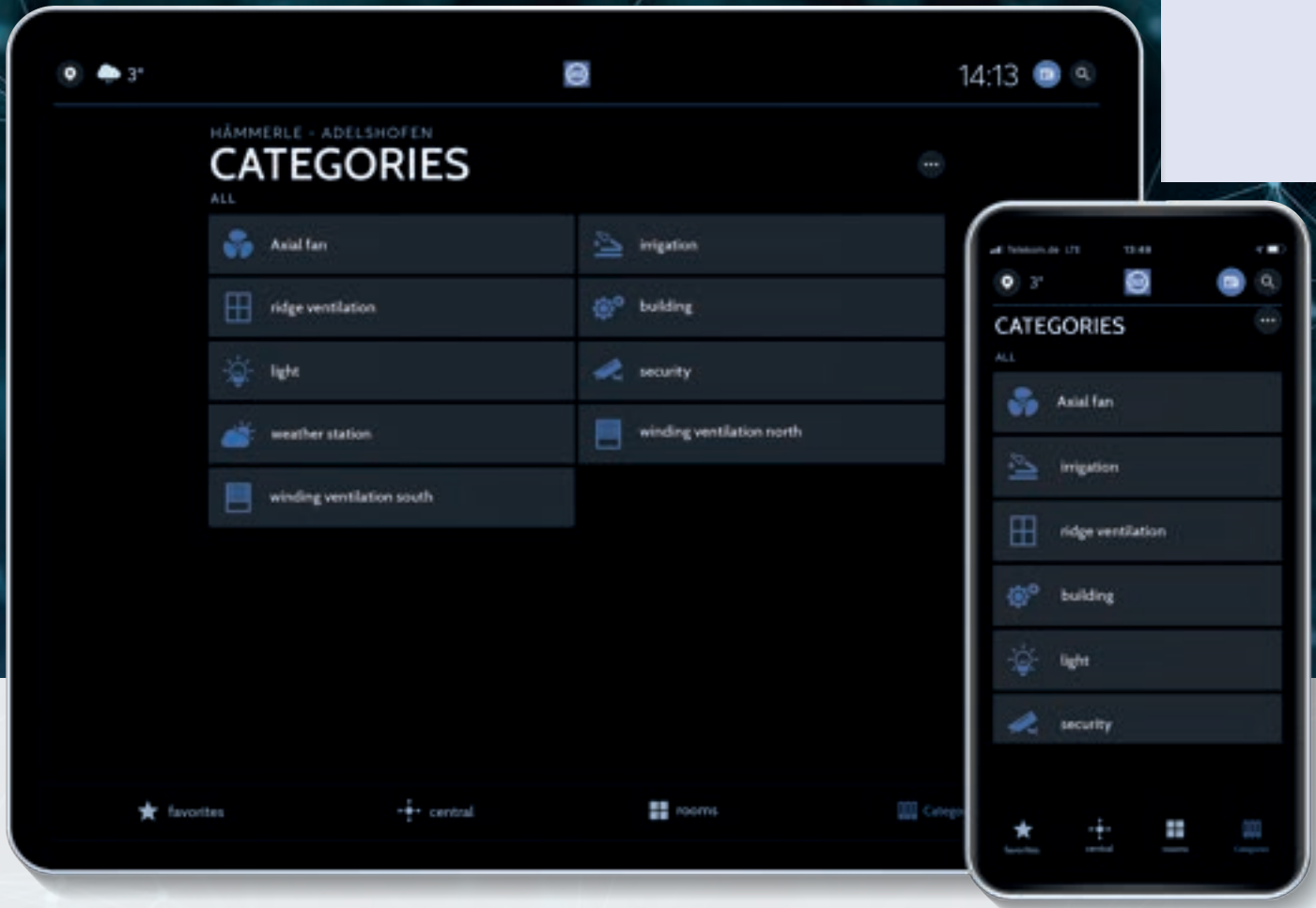
**8** m/s

Wind speed

**64**%

Relative humidity





## System

For Android and Apple devices. The Lock SBE app provides a multitude of useful functions.



## Data & Reporting

- With preset setpoints
- Historical course of values
- Climate analysis and operational check

# SBE-APP

## Simple. Intelligent.

**Optimal interaction. The sensors measure the respective current ambient conditions – and the respective actuators immediately initiate the corresponding positioning or make a recommendation.**

You control all these complex processes easily and conveniently with the LOCK SBE app on your smartphone or tablet – wherever you are. In addition, our app provides comprehensive and detailed data reporting. This means you always have your complete barn environment in view and can activate changes.

Built as a modular system, the LOCK SBE app can be expanded indefinitely as new modules are added. This means, your system is ideally equipped for all future developments.



## Service

- Remote or local commissioning
- 24/7 support in “LockCare” package



## Operational check

First, we – your Lock experts – carry out a comprehensive operational check and assess the actual state of your farming estate.



## Project planning

Based on the determined data, we create a project and cost plan.

# PROCESS

**Clear. Structured.**

**Four steps towards the complete solution.**

We support and advise you on getting your smart SBE system ready for use.



## Commissioning

We support you in commissioning and setting up your SBE system. This can be carried out on site or via remote access.



## Optimization

We will remain in contact with you to optimize the SBE system for your business in the best possible way.



## Family Steurer

Dairy cattle farm  
Betzigau, DE

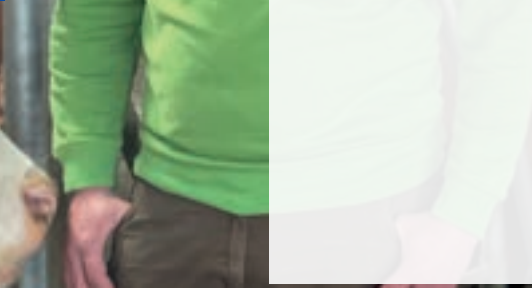
“In addition to the spiral vents, ridge ventilation, fans and the cow shower, the feed augers of the concentrated feed system and the submersible agitators in the slurry cellar were also integrated into the SBE Farm management system. This connection saves us time and spared us from having to deal with 6 different control system manufacturers. With SBE we have everything clearly in just one control system and can operate everything via one app.”

With SBE, we now have everything from a single source & can install lifting windows in the calf barn as well as our Agrilight lamps and the wrap-around ridge ventilation conveniently from anywhere. The close exchange with the Lock team not only enables us to make continuous improvements of our work processes but also have optimized monitoring of individual components in the barn, such as our milking robot or the leakage detection in the slurry channel.



## Karl Müller

Dairy cattle farm  
Allmannsweiler, DE





**INSIDE**

**YOUR  
SUCCESS**  
... is our motivation

“In the past, we have had some problems with the humidity in the barn. By the use of SBE I have temperature, humidity and wind speeds always in view and can rely on the system. As soon as the sensors detect critical values, the ventilation systems are automatically activated. This simplifies the workload and increases the health of ewes and lambs.”

## **Jörg Schmid**

Municipal sheepfold  
Owen/Teck, DE





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