



## Lely T4C management programme – the centre to stay in charge of your herd

Our farm management software Lely T4C provides you with all the information you need at hand to manage your herd in a time-effective way. It connects your Lely Astronaut robots, Lely Vector feeding system and other Lely devices; all in one programme. You manage your complete farm from one central point. Time for Cows (Lely T4C) facilitates effective management by exception.

The Lely T4C management programme takes a central place in your herd management as it is much more than only the programme for the management of the milking on your farm. Besides that Lely T4C provides information about every milking that has been done, it is also the starting point of feed, reproduction and grazing management.

In combination with the Lely Grazeway selection box, you can easily control the routing of your cows while combining grazing with the milking robot. Reproduction management is made easy, with our integrated heat detection and reproduction module. With the new Lely Vector automatic feeding system, both concentrates and roughage, can be optimized. The benchmark-option gives you the possibility to compare yourself with other Lely farmers worldwide as indicator for of your herd's performance. With the handy dashboard you have an overview of the performance of your herd at a glance. From there you can easily zoom in on the details below. Every event, from birth till the day the cow leaves the farm, is stored in the Lely T4C management programme.

### Fertility – monitor her breeding cycle

Fertility is known as a major time consumer and has a large influence on the economical results of

a farm. Reliable detection of cows in heat (oestrus) is a key factor for successful breeding in herds and commonly accepted as the single most important factor for reproductive improvement in most of the dairy farms.

### Reproduction Module – follow the performance

The fertility status of the herd can be monitored with the special Reproduction Module in Lely T4C. This module shows the reproduction status and the results from the past. This way you can manage the herd's reproduction and easily find the points for improvement.

Based on the activity of the cow and the history generated, the heat is automatically registered. A cow is marked automatically pregnant by the absence of a clear heat-activity increase after insemination. Pregnancy checks by the veterinarian are no longer needed. This saves both time and money.

### Management on the spot

The E-link Manager gives you an overview of Lely T4C information to manage your herd at the milking robot. Lely also provides the possibility to use a PDA module to enter data into T4C at any place and any time, in or outside the barn.



#### Users say:

"I trust Qwes heat-detection and health monitoring better than my own eyes."

Denmark

#### Key benefits

- Insemination at correct time.
- Optimal reproduction.
- Reduce calving interval.
- Earliest signs about potential health problems.

## Lely Qwes health and reproduction monitoring – the power of knowledge

Lely has developed a unique tool to determine health problems and heat at the earliest stage. The Lely Qwes-systems provide unparalleled accuracy for 24/7 monitoring of cow reproductive and health status.

### Accurate cow activity measuring

The Lely Qwes-H system is a collar mounted cow identification and activity sensor. Activity levels are measured by a sophisticated acceleration sensor which measures movement duration and intensity instead of just steps. The Lely Qwes-HR provides additional functionality by measuring the cow's rumination activity – an early indication of the cow's health. Both systems monitor cows' activity in two hour time blocks and thus provide a highly accurate high-resolution view on an individual cow's behaviour. The tag is attached to the upper part of the cow's neck with a strap and weight in a way that prevents false movements and protects the tag from mechanical damage. The strap and buckle are designed for convenient attachment and removal, enabling easy transfer of the tags among cows if needed. The Lely Qwes-HR tag includes an acceleration sensor, specially tuned rumination microphone, a microprocessor and memory. The tag records a general activity index and analyzes the vocal signals to calculate rumination time.

The tag creates an activity index, allowing you to inseminate at the correct time. Therefore reproduction is optimized, the calving interval is minimized and semen costs are significantly reduced.

Changes in rumination are the earliest signs that can provide warning about potential problems. The earlier a farmer can obtain information about a potential health problem, the cheaper it will be to deal with the problem. Also the effect on a cow's performance and general herd appetite can be measured. Rumination activity can also provide an incomparable insight into the effectiveness of veterinarian treatment. In addition, the system automatically alerts of low activity cows, often an early indication of suspected illnesses and potential lameness.

## Dynamic feeding

The Lely T4C management programme gives you the opportunity to reduce your feed cost because of higher feed efficiency. With the optional dynamic feeding module (DLM), the system automatically changes feed allocations per cow based on optimum cost benefit ratio. You can avail yourself of unique resources enabling you to maximize your profits; this is no longer about the cows producing most milk but rather about the cows yielding the best economic results.

Dynamic feeding uses the individual feed efficiency of an animal by recording how an animal responds in milk yield to a specific amount of concentrates. By also taking into account the milk return (kg of milk and solids), costs of concentrates, costs of roughages and dry matter intake, the system searches the economically optimal amount of concentrates fed at which profits are maximised.

### Dynamic milking

Dynamic milking allows cows to be milked more often when necessary and less frequently when possible. By increasing or decreasing the interval between two milkings and measuring the milk yield at the next milking, the optimal interval for each cow is determined continuously. This calculation takes place within the set boundaries allowing a minimum and maximum number of milkings per day. By also taking into account milking speed, treatment time per milking and milk return (kg of milk and solids), robot output – and hence financial return per robot – is increased.

### Compare and improve

The Benchmark within T4C gives you the opportunity to compare your results with the results from other farmers around the world, your Lely Center area and the average in your country. A real way to compare how your farm is performing and where other farmers might be doing better – a true pointer to improvement.