



*reliable + quick*  
***informed***



[www.lister.de](http://www.lister.de)

**MilkGuard**

Tank 1: 4.3°C

Kühlung aktiv



**alcona**

# MilkGuard

*monitoring + early warning via mobile phone*

*Internet enabled  
operation*

*Installed  
without drilling*

*Adjustable  
limit values*

*12 month  
online archive*



The device complies with the German Milk Delivery Directive promulgated by the German Milk Association.



## reliable + quick informed installed without drilling online customization

The new Milk Guard fromalcona Automation GmbH gives you a reliable monitor for your milk tank in accordance with the latest statutory regulations and local dairy requirements.

### The Milk Guard controls the following parameters:

- Milk refrigeration temperature
- Agitator function
- Cleaning temperature and duration
- Power failure and refrigeration malfunction
- Storage duration milk

**Monitored by mobile phone alarm**

**Automatic alarms are generated when limit values are exceeded. Farmers are notified promptly via horn, phone call and SMS.**

If the milk no longer meets quality standards, a "Load Warning" function is generated, notifying the driver of the milk tanker truck via strobe light.

**All values are tracked, logged and archived, and are therefore available for up to 12 months.**

Thealcona Milk Guard is easily retrofitted into already existing and even new milk tanks. All commercially available tanks are supported. The Milk Guard is supplied with sensors that track the required readings.

These sensors are easily installed without harming the tank.

No additional drilling is required on the tank. The inside or outside tank walls are therefore not damaged.

One Milk Guard can monitor up to 4 tanks simultaneously. This minimizes investment costs and reduces the workload.

The device operates fully automatically by reading the required values from the tank and by generating the corresponding alarms and parameters based on these. Routine operation and/or manual intervention is not required.

With the help of the integrated rechargeable battery, the operation of thealcona Milk Guard is ensured even during a power failure. In this case, the grid failure is reported accordingly.

### The device generates the following error messages:

#### Per tank:

- MIN temperature milk
- MAX temperature milk
- MIN temperature cleaning
- MIN duration cleaning
- MAX time until clean
- Agitator malfunction
- Refrigerator malfunction
- MAX storage duration milk

#### General:

- Power failure
- GSM network
- SIM card
- battery

**Your tank remains unharmed**



**Up to 4 tanks**

**Labor reduction**

**Power grid monitoring**





The device complies with the campaign „Foqus planet“ from FrieslandCampina and is active recommended from FrieslandCampina

FrieslandCampina

Errors are generated with limit values based on user-programmable parameters.

The Milk Guard configuration can therefore be customized to local conditions.

**Custom parameters**



The Milk Guard also generates a “Load Warning” message when the milk quality drops below the specified limit values from the directive. This is accomplished based on the following criteria:

- Maximum milk temperature
- Minimum cleaning temperature
- Agitator function
- Power failure

**Full customization**

The criteria/limit values mentioned above can be customized on the unit with password-protected parameters.

**Safety**

**Straightforward operation**

The display and buttons intuitively illustrate the unit status. The straightforward operation is designed for user-programmable setting adjustments, such as storing telephone numbers for phone calls or text messages (SMS).



**Alarm to your mobile phone**

**Automatic alarm**

The farmer receives an acoustic and telephone alarm if readings drop below or exceed limit values. The wireless network is used to establish a connection to mobile phones and even to the wireline network. He or she receives a direct call or a text message (SMS) that provides details about the type of malfunction.

**Monitoring cleaning concentration**

Optionally there is the possibility to equip the device with additional sensors for monitoring the cleaning additive concentration. In this case, you receive a corresponding alarm in the underflow of freely adjustable threshold values.

**Convenient long-term access**

Thealcona Milk Guard stores alarms, temperatures, and miscellaneous operating states for up to 12 months. The integrated web server is used to display these values via the Internet.

This is accomplished by simply loading the Milk Guard website with an Internet-compatible PC or Smart-Phone. Communication with the unit is routed over the wireless network. As a result, no additional LAN or WLAN connections to the unit are needed.

**Archive via web server**

**Internet-enabled**

*online access anytime*  
*adjustable limit values*  
*convenient online archive*

## Typen

ALC-TWU

Milk Guard for 1 tank

ALC-TWU-ET2

Milk Guard extension kit 2nd tank

ALC-TWU-D

Milk Guard for 3 tanks

ALC-TWU-ET4

Milk Guard extension kit 4th tank



## Technical Specifications

### Power supply:

100..240 V, 50/60 Hz

### Current consumption:

0,2 A

### Protection type:

IP54

### Housing dimensions:

300 x 233 x 110 mm (WxHxD)

### Ambient temperature:

0..35 °C

### Control voltage:

12 V

### General interfaces:

Horn

Mobile radio antenna

### Interfaces for each tank:

Strobe "Load Warning"

Temperature sensor

Agitator sensor

3 digital signals for tank control

Monitoring cleaning concentration

### Modem:

Dualband UMTS / Quadband GSM

### Battery:

1,2 Ah (rechargeable)

### Supplied scope:

GSM antenna with 5 m interface cable

Temperature sensor

Agitator sensor

Strobe "Load Warning"

### Accessories:

5m antenna cable extensions

External horn

## Lister GmbH

Postfach 21 60

58471 Lüdenscheid

Tel. 0 23 51/10 60 - 232

Fax 0 23 51/10 60 - 62

info@lister.de

www.lister.de

## More information:



[www.lister-kuehlung.com](http://www.lister-kuehlung.com)