

## Product Highlights

### Cleaning-in-Place

Centec designs and builds CIP units to deliver efficient cleaning across a wide variety of process systems – starting with small mobile sets typically for cleaning individual items through to multi-tank systems for large plants.



### Flash Pasteurizer

Designed to pasteurize milk and other dairy products. The fully automated process skid uses high precision sensors and the most accurate control technology. Together with appropriate heat exchangers it delivers the right level of heat input, energy recovery and cooling.



## Innovation for the Laboratory



### Laboratory Density Meter

For extremely accurate determination of density and temperature in the lab. Sample volume 2 ml. Equipped with a user friendly 10" touch screen.

## Global Knowledge for Local Applications

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## Dairy Systems & Sensors



The Taste of Technology

## The Centec Group

Centec is a strong, privately owned group of companies. We design and manufacture automated process skids for efficient and reliable production of milk, cream, butter and cheese. Centec technology includes a range of process sensors for accurately measuring and controlling crucial product characteristics. The largest dairy groups in the world are among our key customers.

Our production facilities in Germany and the Czech Republic include a skilled electrical and automation department with in-house switch cabinet manufacturing. As a core element of our growth strategy, we are currently expanding our Czech operations.

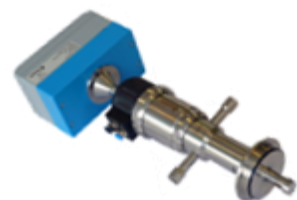
This outstanding infrastructure allows efficient logistics, short lead times and strict adherence to delivery deadlines. The quality of our products is outstanding, so is the price-performance ratio.

## Sensor Innovations



### External Display

Aiming for increased user-friendliness, the external display is the perfect solution for installations that are difficult to access. Available for OXYTRANS, RHOTEC and SONATEC. With two 4 mA - 20 mA outputs. Cable length between sensor head and display up to 10 meters.



### Retractable Unit for O<sub>2</sub> Sensor

For continuous measurement of the O<sub>2</sub> content in liquids and gases. The sensor can easily be drawn back without stopping the system, e. g. during sterilization of the plant. Manual and pneumatic version.

**Innovation. Dedication. Centec.**

## Automated Process Skids

The broad range of our process units includes automated process skids designed to customer requirements for various applications in dairies:

- Iron & Manganese Removal
- Chlorine Dioxide Generation
- Activated Carbon Filtration
- Water Softening & Ion Exchange
- Reverse Osmosis
- UV Disinfection
- Membrane Water Deaeration
- Column Water Deaeration
- Carbonation
- Oxygen Injection
- Nitrogenation
- Milk Standardization
- Multi-Component Mixing
- Additive Dosing
- Flash Pasteurization
- Cleaning-in-Place (CIP)
- Sterilization-in-Place (SIP)
- Pure Steam Generation



No matter how complex requirements may be, Centec will provide the right solution. Our capabilities include the planning, delivery, assembly and commissioning of turn-key plants.

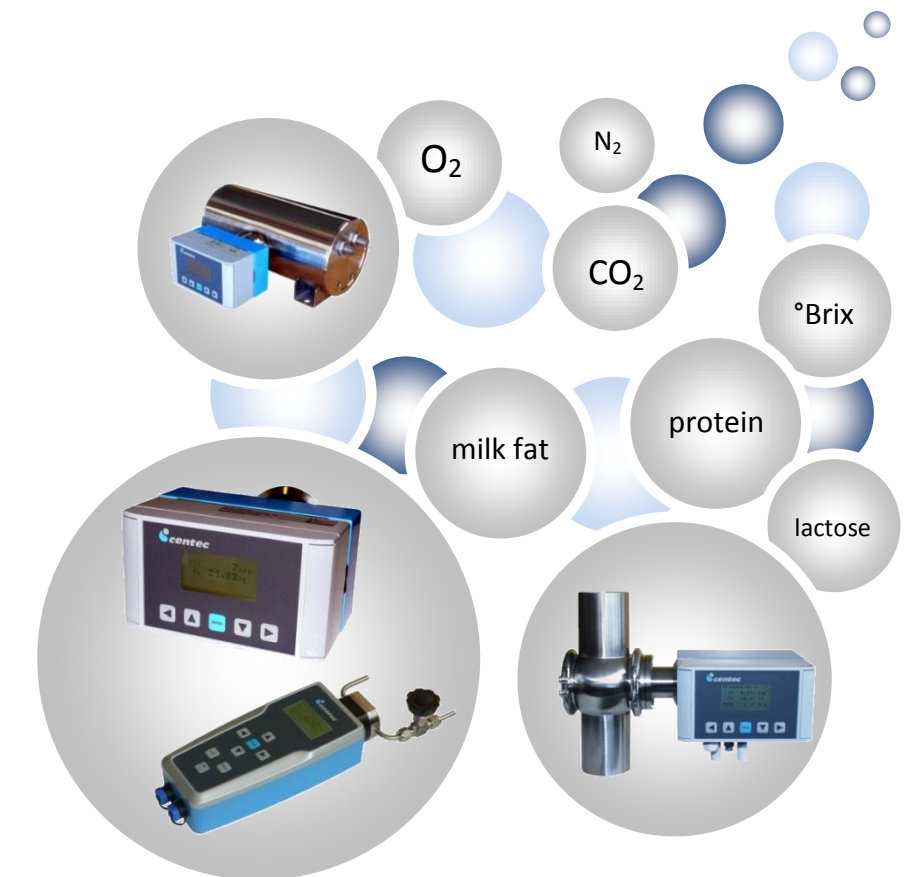
**Experience. Expertise. Centec.**

## High Precision Sensors

Centec sensors are applied in laboratory and process environments. They ensure that products are produced to consistently high standards and that processes run extremely efficiently with the least consumption of energy and raw materials. Our portfolio covers the following measurements:

- OXYTRANS – O<sub>2</sub> in liquids and gases
- CARBOTEC – dissolved CO<sub>2</sub> in liquids
- RHOTEC – density of liquids and fat content
- SONATEC – sound velocity in liquids

The measurement of density or sound velocity allows the concentration of a media such as the fat and protein content to be displayed. Our high precision sensors are ideally suited for milk standardization.



**Accuracy. Reliability. Centec.**