

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.



Reverse Osmosis

With reverse osmosis, all ions, viruses, bacteria and solids remain in the retentate. For sterilization and WFI, we provide pure steam generators and various evaporation technologies, e. g. multistage pressure columns.



Our capabilities include the planning, delivery, assembly and commissioning of turn-key plants. Design qualification (DQ), installation qualification (IQ), operational qualification (OQ) and performance qualification (PQ) from an integral part of our daily validation activities.

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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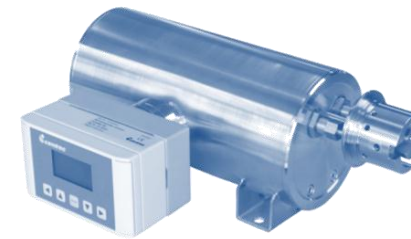
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Pharma Systems & Sensors



The Efficacy of Technology

The Centec Group

Centec is a strong, privately owned group of companies. A core business for us is customized systems for the production and distribution of high purity and injection water (WFI) for pharmaceutical and biotechnological plants in accordance with GMP and FDA guidelines. We are an experienced partner for pure steam generation, CIP- and SIP-processes as well as for services related to product preparation. Centec technology includes a range of process sensors for accurately measuring and controlling crucial product characteristics. The largest pharmaceutical and biotechnological 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. We provide control software design and qualification according to GAMP5 guidelines.

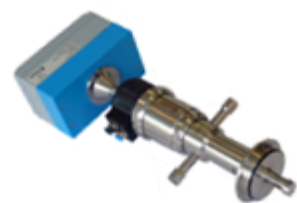
This outstanding infrastructure allows efficient logistics, short lead times and strict adherence to delivery deadlines. The quality of our products is outstanding, so is the price-performance ratio.

Centec Innovations



Vortex Injector

Gases such as O₂, CO₂ and N₂ are injected into liquids as very fine homogeneous bubbles and quickly dissolve into solution. The high efficiency of the system reduces the consumption of gases to a minimum.



Retractable Unit for O₂ Sensor

For continuous measurement of the O₂ 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:

- Water Softening & Ion Exchange
- Reverse Osmosis
- UV Desinfection
- Electro-Deionization
- Ultra & Nano Filtration
- High Purity Water (HPW) Production
- Water for Injection (WFI) Distillation
- HPW & WFI Loops
- Membrane Water Deaeration
- Column Water Deaeration
- Product Preparation
- Multi-Component Mixing
- Additive Dosing
- Flash Pasteurization
- Dealcoholization
- Cleaning-in-Place (CIP)
- Sterilization-in-Place (SIP)
- Pure Steam Generation



No matter how complex requirements may be, Centec will provide the right solution. As a competent partner of the pharmaceutical industry we are more than familiar with regulations and guidelines such as GMP, GAMP, USP and FDA. We are certified according to EU Directive 93/42/EEC to manufacture Class II b Medical Devices, "Water Treatment Systems for Dialysis".

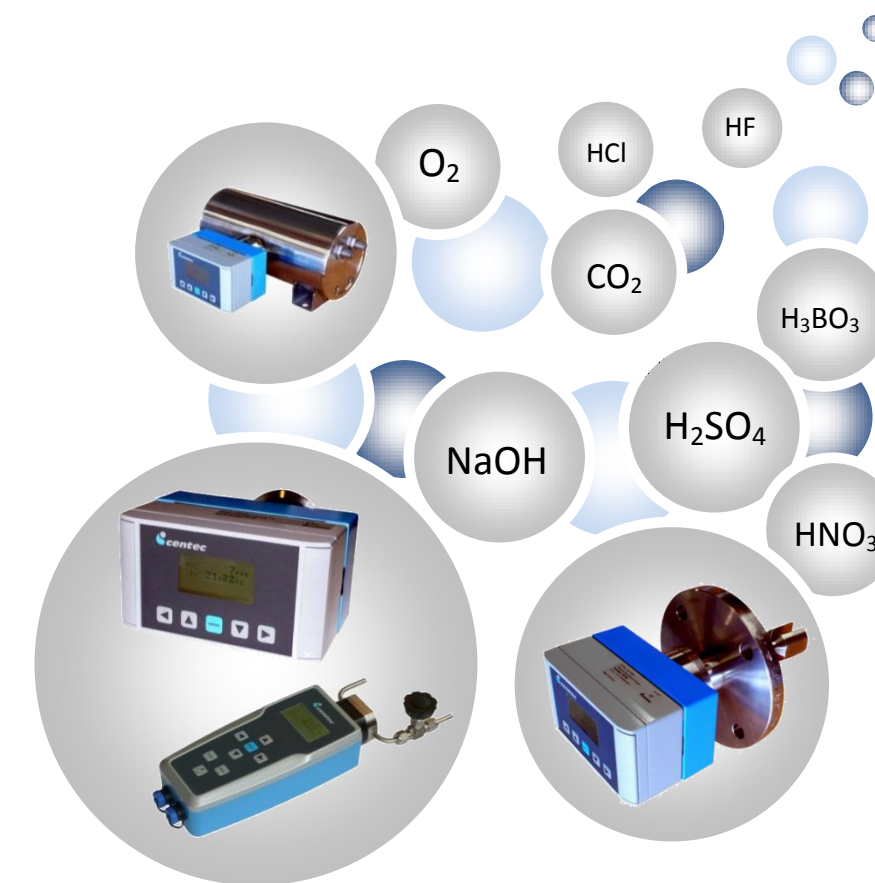
Experience. Expertise. Centec.

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 – O₂ in liquids and gases
- RHOTEC – density of liquids
- SONATEC – sound velocity in liquids
- COMBITEC – functionality of SONATEC and RHOTEC combined

The measurement of density or sound velocity allows the concentration of a media such as acid or caustic to be displayed. In three component liquids both density and sound velocity need to be measured.



Accuracy. Reliability. Centec.