

OXYTRANS – O₂ Concentration Measurement

OXYTRANS measures continuously the exact content of O₂ in liquids and gases. The sensor is designed for food and beverage industries and other high end process requirement applications, e. g. power plants or bioreactors. The optical principle of measurement is based on the effect of dynamic luminescence quenching by molecular oxygen.



Portable hand-held oxygen meters are an essential tool for product analysis in laboratories, fault finding by process maintenance technicians and for the inspection of water systems. They are robust and highly accurate.

Retractable Unit

For continuous measurement of the O₂ content in liquids and gases. The sensor can be drawn back without stopping the system, e. g. during sterilization. Manual and pneumatic version.



CARBOTEC – CO₂ Concentration Measurement

CARBOTEC sensors are applied for measurement the dissolved CO₂ content in liquids, e. g. in carbonated soft drinks and beer. The measurement is performed in-line by regular abrupt localized decompression.



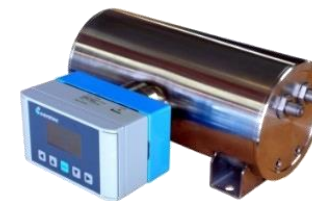
For determining the CO₂ content, a sample is isolated from the main stream. When the pressure is abruptly reduced, the resultant pressure will differ from that of a non-carbonated liquid according to the volume of dissolved CO₂ in the sample.

Incredible Accuracy. Centec.

RHOTEC – Density Measurement

RHOTEC is mounted on to a process line to continuously measure the density of a liquid. This data allows the concentration of a media such as sugar, alcohol, acid or caustic to be displayed.

This sensor is ideally suited for quantitative process monitoring and controlling in beverage, brewing, dairy, pharmaceutical, and related industries. It is especially useful where several ingredients need to be measured accurately such as for blending and mixing applications.



SONATEC – Sound Velocity Measurement

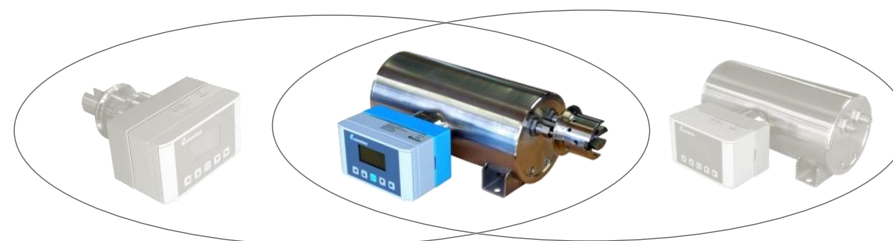
SONATEC sensors determine the speed of sound through a liquid. Based on this measurement, the concentration of media can be displayed.



Like RHOTEC, also SONATEC is applied for process monitoring and controlling in various industries when two or more ingredients need to be measured very accurately. It is also used for interface detection between two liquids.

COMBITEC – Density and Sound Velocity Measurement

Applicable for 3-component systems like alcohol/sugar or H₂SO₄/SO₃, COMBITEC combines in one unit RHOTEC fluid density sensing and SONATEC sound velocity measurement.



Superior Quality. Centec.

Modular Concentration Monitors

Centec provides a variety of output signal processors to interpret the product data obtained from one or more different sensors. It can be displayed locally or transmitted to a process control system. Equipped with Profibus interface and touch screen, MCM 68 evaluates O₂, CO₂, N₂, density, sound velocity, pH, turbidity, conductivity, pressure, temperature and other values.




Product 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.



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.

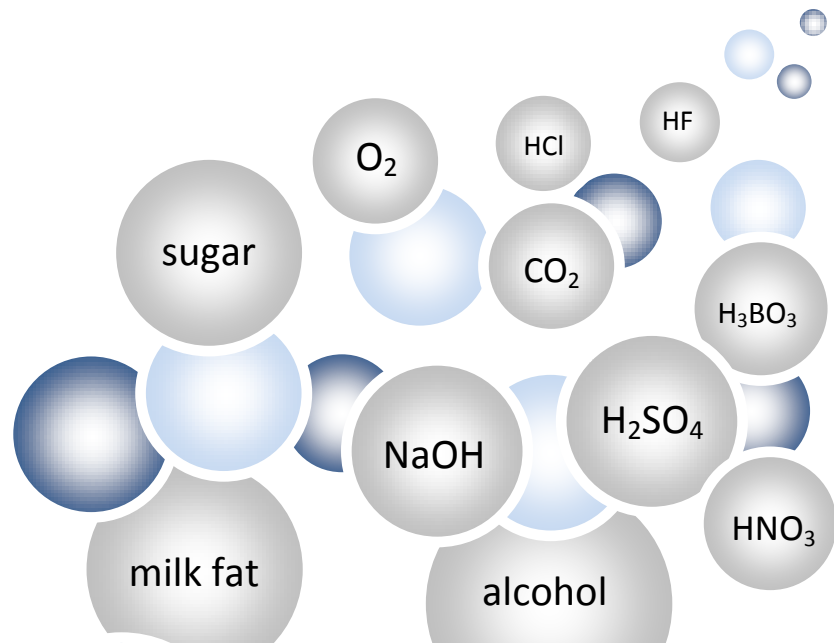
A key to the performance of our automated process skids is our unique ability to accurately monitor and control product characteristics such as density, concentration, alcohol content, etc. with incredible precision.

Proven Technology. Centec.

Industries and Applications

Centec is a strong, privately owned group of companies. With a focus on processing industries, we are rapidly growing in the major world markets. We have a global structure for sales and service with our own subsidiaries and service centers on several continents and a network of qualified distributors.

Our production facilities are located in Germany, in the Czech Republic and in the US. 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.



	Brewery	Soft Drinks	Wine & Spirits	Dairy	Food	Chemical	Petrochemical	Electronics	Semiconductor	Pharmaceutical	Biotechnology	Coal-fired Power Plants	Power & Heat Supply Stations	Nuclear Power Plants
OXYTRANS	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
CARBOTEC	✓	✓	✓	✓	✓									
RHOTEC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
SONATEC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
COMBITEC	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Lab Density Meter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			

Global Knowledge for Local Applications

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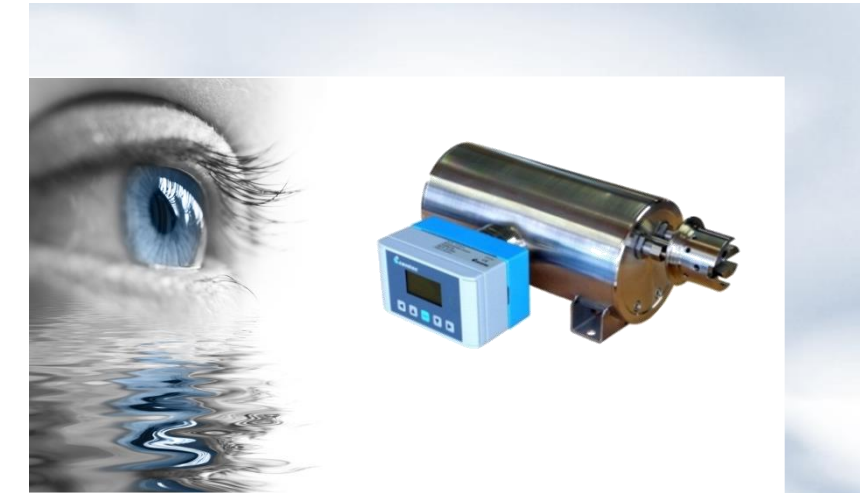
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High Precision Sensors



The Best of Technology