

BIOSENSOR FOR ALCOHOL

Intuitive alcohol measurement in non-alcoholic beer and other beverages.



The Biosensor Benefits

Biosensor strips are the state of the art in medical blood glucose measurement. We bring the benefits of this technology to the food industry:

- **Accurate Results**
Highly selective and sensitive biosensor technology.
- **Fast Analysis**
Get results in 2 minutes, no calibration work.
- **Easy On-Site Measurements**
No chemical expertise needed, non toxic water-based biochemistry.
- **Maintenance-Free**
No regular service technician visits required.
- **Cost Savings**
Attractive total cost of ownership.
- **Multi-Parameter System**
Growing parameter range: maltose & glucose available; fructose, L-lactic acid and sucrose coming soon.

3 Simple Steps



1. Dilute

Dilute sample with buffer.



2. Scan

Transfer the calibration constants with a QR scan.



3. Measure Alcohol

Apply sample and get the result after 50 seconds.

Ready to bring precision to alcohol testing?

Contact DirectSens today!

System Components



Biosensor Kit

25 biosensor strips (single use, factory calibrated), buffer, control solution. Enzymatic conversion of target molecules into an electrical signal.



Reader Kit

Handheld device with touch display and robust aluminum housing. Integrated QR scanner transfers calibration constants. Converts electrical signals into concentration results.



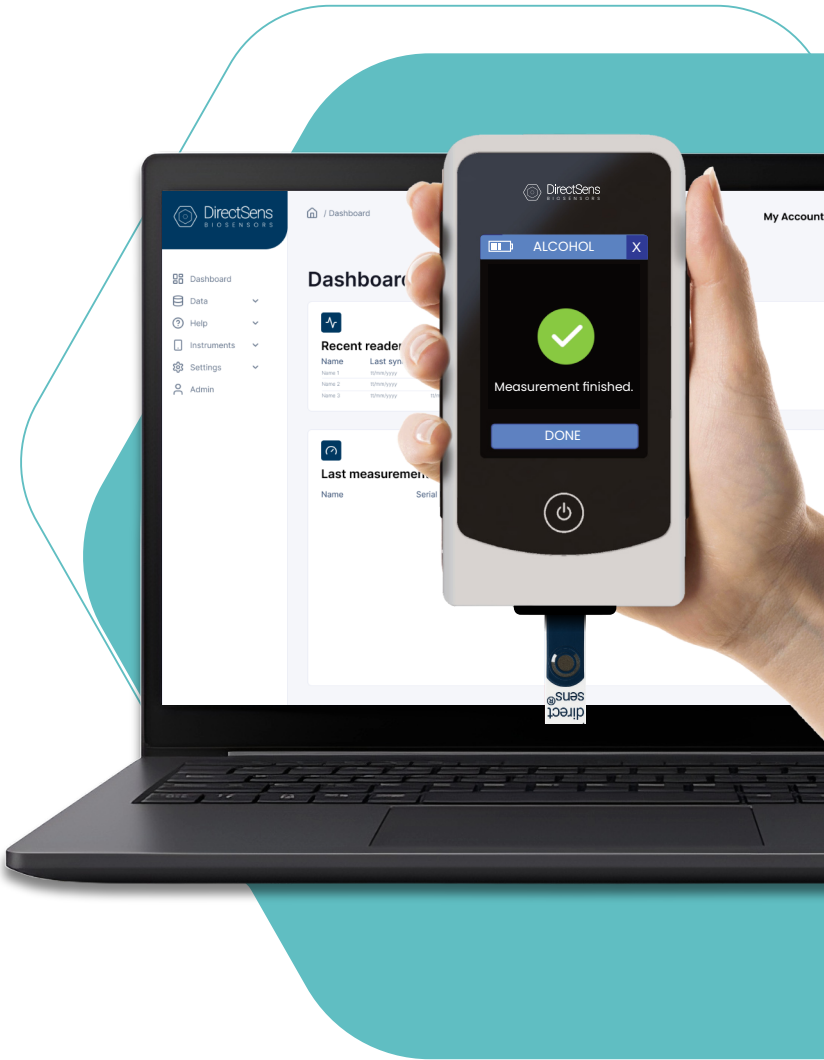
PC App

Obtains results from the reader via BT/USB. Simplifies data review and organization. Generates reports (XLS, CSV, PDF) and supports LIMS integration.



Service

Technical support and assistance with new applications: fast, competent and no extra costs.



Applications



Non-Alcoholic Beer

No need to walk from the production to the lab – measure on site, 24/7, standard non-alcoholic or 0.0 % beers, shandies.



Non-Alcoholic Wine

Faster results. Lower product risk. Quicker bottling.



Potential Applications

Non-alcoholic cocktails, juice, kombucha.

Specifications

Measuring Range:	0.015 – 0.8 % v/v
Range can be increased by using higher dilutions.	
Repeatability st. dev. :	≤ 6 %
Reproducibility st. dev. :	≤ 8 %
Total Measuring Time:	~ 2 min.
Shelf-Life Biosensor Kit:	12 months at 2 - 8 °C