



A laboratory in your factory

Accurate & easy to use
Sodium sensor for food analysis



The smart way to measure sodium in crisps, snacks and food

Benefits

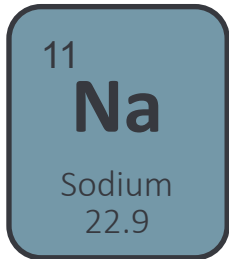
Tveskaeg Benchtop sets a new standard for easy measurements. Powered by revolutionizing 1-70 MHz multi frequency magnetic resonance technology Tveskaeg is able to reliably measure the concentration of virtually any target molecule or compound at the atomic level - without the hassle of sensor cleaning and maintenance.

- Results unaffected by sample matrix effects
- No user calibration during instrument lifetime
- Robust operation without scheduled maintenance



User friendly

Operators love the Tveskaeg technology. It is safe to operate, and anyone can perform the measurement.



Direct analysis

Say goodbye to erroneous signals from other ions. Tveskaeg reads the actual amount of sodium in the sample.



Improve consistency

Minimize batch to batch variation by more reliable measurements of how flavouring is applied.



Future proof

Today you need to measure sodium. But in the future your needs may change. Tveskaeg can be upgraded with more parameters along the way.



Eliminate chemical consumption

No chemicals are needed for Tveskaeg to function

TVESKAEG benchtop is available in different versions and with multiple functions. Adapt the system to your changing needs. Choose your option and accessories and expand additional settings when needed.



Tveskaeg Benchtop

This laboratory apparatus is an easy to use instrument. Insert the stick filled with > 5 ml of the mixture, choose your application and press start. Achieve a precision of 32 ppm (± 32 mg/L or $\pm 0.0032\%$) sodium in 1 minute. The device is delivered with 10 sample tubes.



Tveskaeg Benchtop Pump

This Tveskaeg version comes with an integrated fluid pump. Fill a small container with the mixture, choose your application and press Start. The mixture will be sucked up, analyzed and then discharged into another container. The Tveskaeg pump is also convertible to a stick version and comes with 10 sample tubes.



Tveskaeg Autosampler

The Autosampler is Placed on the top of the Tveskaeg Benchtop and connected via USB. The unit automatically cycles all the sample tubes loaded in the carousel through the analyzer. It automates the processing of batches of up to 24 samples tubes per cycle.



Bar code reader

Capture, Validate & Connect

Scan barcode. Validate against a database. Collect associated data. Auto-sync to our server or yours.



Cloud database

Users can access cloud databases from virtually anywhere, using web interface. In the event of an equipment failure or power outage, data is kept secure through backups on remote servers.

Specifications

Physical properties:

Dimensions (w x h x d): 740 x 400 x 250 mm
Weight: 35 kg
NMR chamber inner diameter: 9.2 mm

Precision

1 min. measurement time: ± 32 ppm (Standard deviation)
1 hour measurement time: ± 4 ppm (Standard deviation)
Factory calibrated: Better than $\pm 3\%$

Temperatures:

Ambient temperature : $+16^{\circ}\text{C}$ to $+28^{\circ}\text{C}$
Storage temperature: -15°C to $+70^{\circ}\text{C}$

Accessories and operation

Consumables and chemicals: None
Calibration: Lifetime calibrated
Operation: Pump or reusable tubes

Compliance:

EN 61000-6-1: 2016
EN 61000-6-3: 2007 + A1: 2011
FCC Part 15 Subpart B, Class B device

Power supply:

Power input: 90-264V AC, 47-63 Hz
Measuring mode consumption: 100 Watt

Looking to get in touch?
Please contact us at info@nanonord.dk