Dansensor®
CheckPoint® 4
SUPERIOR PORTABLE HEADSPACE ANALYZER

Dansensor CheckPoint 4 - Convenient and reliable

Benefits

- Highest reliability of any portable headspace analyzer
- Quick and easy to use
- Eco-friendly sensors – RoHS compatible
- Convenient cordless design
- Durable and robust for production environments
- Affordable quality control
- Trusted manufacturer and service provider for over 40 years

Portable gas analyzer for quick and precise quality control

The Dansensor® CheckPoint® 4 is the most advanced portable gas analyzer on the market, enabling you to quickly and easily test O_2 and CO_2 levels in Modified Atmosphere Packages (MAP) of any shape or size. It delivers accurate headspace readings on all types of products, bringing fast, reliable quality control to your packaging process.

Designed for ease of use, the intuitive user interface, touchscreen, and ten language options ensure operators can execute tasks efficiently, with minimal training. It minimizes the risk of human error and maximizes overall productivity.

Premium models offer data traceability and security with individual user logins, product definitions, and reliable storage of up to one million readings. Transfer data directly via WiFi, eliminating the need for vulnerable paper records.

Dansensor CheckPoint 4 is perfect for manufacturers looking for a robust and reliable portable quality control instrument to use at their packaging line.

Features

- O_2 or combined O_2 / CO_2 measurements
- Different sensor options ensure compatibility with all applications
- Easy-to-read touchscreen with 10 language options minimizes training time and risk of errors
- Gas flow alarm (visual)
- Energy-saving auto shutdown
- Convenient, robust charging port
- Optional protective covers
- Use standard, low-cost needles

Premium features:

- Data collection and transfer via WiFi
- Store up to 100 user profiles, 1000 products, and 1 million readings

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HOW DOES IT WORK?

1: Insert the needle into the package through the septum and start test with the touch of a button.

2: Within seconds, the Dansensor CheckPoint 4 displays the O_2 or O_2 and CO_2 levels inside the package.

3: On Premium models, data is saved to the instrument and can be transferred to your database via WiFi for traceability. The optional web interface provides statistical data for documentation.
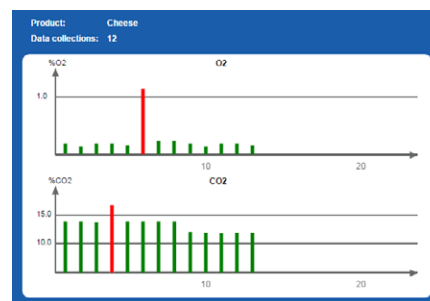
Model Overview

Model	Product definitions	Readings saved	User accounts	WiFi data transfer	Web interface option
CheckPoint 4	1	1	✘	✘	✘
CheckPoint 4 Premium	100	500/product	10	✓	✓
CheckPoint 4 Premium⁺	1000	1 million	100	✓	✓

Note: It is not possible to upgrade between the different models.

Web interface displays statistics and graphs.

Technical Specifications

Available configurations	O₂ (optical sensor)	O₂ (electrochemical sensor)	CO₂ (infrared single beam sensor)
Sample volume (minimum)	5 ml	5 ml	5 ml
Sample time (minimum)	7 sec	7 sec	7 sec
Measuring range	0-100%	0-100%	0-100%
Resolution	0.01% oxygen	0.01% oxygen	0.01% carbon dioxide
Accuracy	$\pm(0.25\%\ O_2 + 2\%$ of readout$)$	$\pm(0.25\%\ O_2 + 2\%$ of readout$)$	$\pm2\%\ CO_2$ in range 0-20% $\pm3\%\ CO_2$ in range 20-100%
Applications	Most food applications, except those that utilize alcohol (i.e. fresh bread)	All food applications	Most food applications with carbon dioxide
Calibration and service*	12 months	6 months	12 months
Data export	WiFi (WPA, WPA 2, WPA enterprise)		
Dimensions & weight	77 x 100 x 175 mm (HxWxD), 0.7 kg		
Ambient temperature	Operational: 0 to +40℃		
Relative humidity	Operational: 10 to 90 %RH (non-condensing) Storage: less than 95 %RH (non-condensing)		
Power supply	Battery powered; up to 2000 measurements on a fully charged battery at 20 ℃; recharge time maximum 5 hours		
Consumables and accessories	Standard consumable kit (1 sampling kit, 1000 septa, 10 needles (Ø 0.8) & 10 water trap filters), metal needles, can piercer for testing cans		
Warranty	12 months		
Compliance	CE, RoHS, China RoHS		
What's included in the box?	100 septa, 10 needles (Ø 0.8), 10 water trap filters, power supply w/interchangeable plugs (US, EU, AU, UK, CN)		

Specifications subject to change without notice.
* Sensor lifetime depends on usage patterns.

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CheckMate 4
ACCURATE, FAST AND RELIABLE HEADSPACE GAS TESTING

Dansensor CheckMate 4 - trusted for reliable, accurate gas analysis

Benefits

- Reliable, accurate measurements protect your product and brand

- Increase efficiency with short test times and automated data logging

- Easy to use with intuitive touchscreen

- Maximize uptime with improved pump and sample system

- Reduce errors with defined test programs, automated data handling and user logins

A flexible and reliable analyzer with maximum uptime

The Dansensor CheckMate 4 is our premier headspace gas analyzer – a compact tabletop instrument that combines extreme accuracy and reliability with an intuitive user experience. The multilingual touchscreen helps minimize the training time needed for new operators. At the same time, individual user logins provide limited access to functions, helping to secure data and traceability.

Save product test settings to ensure complete and comparable data records. Quickly switch between product test settings on-screen or by scanning the product's barcode with the optional barcode scanner.

Automated data storage and real time data transfer ensure accuracy and speed by eliminating the time and risk associated with manual data entry. Optional PC software makes it easy to monitor data across multiple packaging lines and prepare for audits.

The Dansensor CheckMate 4 includes an improved sample system and pump to avoid blockages and ensure smooth operation. The instrument's sensor module can be upgraded to a newly calibrated module on-site in minutes.*

Features

- O_2 or combined O_2/CO_2 headspace measurements – flexible configuration

- Very small sample gas volume

- Save test settings for quick changes and comparable results

- Data storage and real time data transfer

- Fast and secure LAN connection

- Touchscreen with multilingual graphic interface

- Individual user logins provide security and reduce risk of errors

- Alarm alerts when pre-set gas limits exceeded

- USB port for connecting optional barcode scanner, keyboard or printer

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* Service options vary by country. Please speak to your local distributor for details.

HOW DOES IT WORK?

1. Identify the correct test program by scanning the product's barcode or manually selecting the correct test definition.

2. Place a septum on the package and insert the needle through the septum, into the package. Start the test with the touch of a button

3. During the test, a small sample of the headspace gas is analyzed. The result is automatically stored on the unit.

4. Test results can be printed on an optional printer or exported via LAN (real time transfer) or a USB drive. Import the data to Dansensor CheckMate 4 PC software or to your own database for analysis.

Technical Specifications

Available configurations	O₂ (zirconia)	O₂ (electrochemical)	CO₂ (infrared dual beam)
Key features	Fastest and most accurate oxygen sensor	Not sensitive to alcohol, carbon monoxide or carbon dioxide	Full-scale, temperature compensated carbon dioxide sensor
Sample volume (minimum)	2 ml	5 ml	5 ml
Sample time (minimum)	3 sec	7 sec	8 sec
Measuring range	0-100%	0-100%	0-100%
Resolution	Under 10% O_2: 0.001% Over 10% O_2: 0.01%	0.1%	0.1%
Accuracy	Under 1% O_2: ±0.01% Over 1% O_2: ±1% of readout	±(0.25% absolute + 2% of readout)	±(0.5% absolute + 1.5% of readout)
Heating time	10 min	n/a	10 min
Applications	Most food and healthcare applications	Packages containing ethenol (i.e. fresh bread products)	Most food and healthcare applications with carbon dioxide
Calibration and service*	12 months	6 months	12 months
Number of product test settings	999		
Data collection capacity	Log results of up to 1,000,000 tests		
Data export	Stored data to CSV file (USB) or real time data transfer CSV-string per test (RJ-45). Compatible with CheckMate 4 PC software, Microsoft SQL datbases and other select third party software.		
Dimensions (WxDxH) and weight	305 x 240 x 187mm (12" x 9.4" x 7.4"); 4.2 kg (9.3 lbs)		
Ambient temperature	Operational: 0℃ to +35℃ Storage: -20℃ to +60℃		
Relative humidity	Operational: 10 to 90 %RH (non-condensing) Storage: less than 95 %RH (non-condensing)		
Power supply and consumption	100-240 VAC, 47-63 Hz Max 70W		
Connections	LAN: RJ-45 Ethernet 10/100 Mbit/s, DHCP client or fixed IP USB: 1 x Host, USB 2.0 Type A; 1 x Device, USB 2.0 Type B (max current 500 mA)		
Consumables and accessories	Septa, filters, needles, sample hose (kit), CheckMate 4 PC software, SmartPen retractable needle, can piercer for testing cans and wine bottles, barcode scanner		
Warranty	12 months		
Compliance	$\mathsf{C}\mathsf{E}$, China RoHS II		

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