

Dansensor® CheckMate 3

FLEXIBLE, FAST AND ACCURATE



CheckMate 3 - Our most advanced gas analyzer

Benefits

- Saves labor time and paperwork due to automatic data logging
- Easy transfer of quality control data to the Dansensor CheckMate PC software or third party software
- Reliable quality control of gas flushed products
- Easy operation – a minimum of training required

Features

- Large easy to read 5" color display with touch function
- Available for either oxygen (O₂) or combined oxygen/carbon dioxide (O₂/CO₂) measurement
- Very small sample volume requirement (from 3 ml)
- Data transfer via Ethernet/(LAN), USB or RS232
- Flexible configuration of test scheme, e.g. logging of operator name, batch number, product line, etc.
- USB connection for external keyboard and bar code scanner
- Optional built-in printer

Headspace gas analyzer for quality control of Modified Atmosphere Packages (MAP)

If one thing is important in branding it's "repeatability" – being able to deliver the same consumer experience, time after time after time. How to make sure your product lives up to buyer expectations? Test, test, test – preferably with a reliable gas analyzer like Dansensor® CheckMate 3.

Dansensor CheckMate 3 lets you test gas-flushed packages fast and cost-effectively – a necessity for high-volume brand name manufacturing. Operators can tell at a glance if gas composition is within the required levels. It also provides the traceability you need: essential data about each and every package can be stored in the unit itself or transferred either to the Dansensor CheckMate 3 software or third-party software. As different products have different testing requirements, Dansensor CheckMate 3 can be adapted to virtually any quality control system, making brand consistency easier than ever to maintain.

HOW DOES IT WORK?

1: The first step in an easy and reliable quality control process is to identify the correct product using the product's bar code or by selecting it manually on the Dansensor CheckMate 3. Program selection ensures that the correct test parameters are set and the right user-defined questions about operator name, batch number, etc., are asked.

2: The next step is to insert the syringe through a septum and into the package. After insertion the unit can either start the test automatically or manually at the touch of a button.



3: During the test process a small gas sample is drawn into the analyzer. The result appears immediately on the display, giving the operator an instant indication of a passed or failed result. Test data can then either be sent to a central database, stored in the unit or printed on the optional printer.

4: Collected data can either be transferred to Dansensor CheckMate 3 software, your own database via LAN, Ethernet or collected with a USB key.

MAP products are safely and easily tested with the optional SmartPen option



Technical Specifications

Available configurations	O ₂ (Zirconia)	O ₂ & CO ₂ (Zirconia/dual beam infrared)	O ₂ (Electrochemical)	O ₂ & CO ₂ (Electrochemical/dual beam infrared)
Key features	Our fastest and most accurate oxygen sensor	Our fastest and most accurate oxygen sensor combined with a full-scale temperature compensated carbon dioxide sensor	Not cross-sensitive to alcohol, carbon monoxide or carbon dioxide. (Electrochemical sensors are consumable sensors)	Not cross-sensitive to alcohol, carbon monoxide or carbon dioxide. (Electrochemical sensors are consumable sensors)
Sample volume	3 ml	6 ml	5 ml	6 ml
Sample time	5 sec	10 sec	7 sec (typical, can be extended to 12 seconds with Dynamic Sample Time)	10 sec (typical, can be extended to 12 seconds with Dynamic Sample Time)
Measuring range	0-100%	0-100%	0-100%	0-100%
Resolution	O ₂ : 0.001%	O ₂ : 0.001% / CO ₂ : 0.1%	O ₂ : 0.1% / CO ₂ : 0.1%	O ₂ : 0.1% / CO ₂ : 0.1%
Sensor accuracy at 1% O ₂ and 20% CO ₂	± 0.01% oxygen	± 0.01% oxygen and ± 0.8% carbon dioxide	Better than ± 0.25% oxygen	Better than ± 0.25% oxygen and ± 0.8% carbon dioxide
Heating time	10 min	10 min	None	10 min
Dimensions & weight	180 x 315 x 220 mm (HxWxD), 3.7 kg			
Power supply	100-240 VAC, 50-60 Hz			
Options	Built-in printer, CheckMate PC software, SmartPen – retractable syringe, Can Piercer for testing cans and wine bottles, bar code scanner, standard consumable kit (part no. 300436)			
Connections	USB, Ethernet (RJ45), RS232 (DB9)			
Memory	1,000 programs (products) and minimum 10,000 measurements, depending on the setup			
Third-party software compatibility	Mettler-Toledo FreeWeigh.net, Sartorius ProControl (WinSPC), OCS ComScale NT, Microsoft SQL database Bizerba _statistics.BRAIN			
Compliances	 			

Specifications subject to change without notice. Further specifications are available in the User Guide which can be downloaded on www.ametekmocon.com.