CMV-2



A win-win for thermoforming and tray sealing lines

Customers want higher quality assurance levels... Management wants higher production rates... Here's pleasing news for both.

The CMV-2 gas analyser lets you step up — from random quality control checks to on-line quality assurance — and speed up production as well. By measuring gas composition on a continuous basis, it ensures that each and every package is flushed to spec — a big win for your customers. And because testing is carried out automatically, process lines can be run at high speeds without compromising quality — management will thank you too.

Automatic testing with the CMV-2 isn't just faster and more reliable than manual testing — it's also more efficient. If there's a problem with gas content, the system notifies the operator immediately — there's no waste of time. And if preset limits are exceeded, the CMV-2 simply stops the process — so there's no waste of products or packaging either.



<u>On-line gas analyser</u> <u>for quality assurance</u> <u>of Modified</u> <u>Atmosphere</u> <u>Packages (MAP)</u>

Benefits

- Stops packaging machine if preset limits are exceeded
- Measures every packaging cycle
- Continuous process monitoring of gas content
- Lower labour costs compared to manual testing
- Less packaging waste than with manual testing

Features

- Oxygen or combined oxygen and carbon dioxide measurement
- Alarms for low or high gas concentrations
- Data logging of measurement data
- Automatic switch between different gas mixes if used with MAP Mix 8000 EL
- Optional measurement of buffer tank gas composition





1: An individual program can be created on the CMV-2 for each product to be packaged. The first step is thus to select the correct program to ensure that the correct alarm levels are set. If the CMV-2 is connected to the electronic gas mixer then the correct gas mix will also be set.

2: When the packaging machine is running the residual oxygen level (and optionally the carbon dioxide level) is measured for every cycle. The CMV-2 takes the gas sample directly from the sealing die in the machine and gives an average measurement of the gas content in the die.

3: If the oxygen or carbon dioxide level is close to the limits the operator will be notified, and if the limits are exceeded the packaging machine will be stopped.

4: With optional buffer tank measurement, gas composition in the buffer tank can be checked before packages are flushed, providing even greater control.

CMV-2 is an analyser designed for use with thermoforming (TFFS) and tray sealing machines equipped for Modified Atmosphere Packaging. The analyser works by measuring the gas content nondestructively before sealing the packages.



Technical Specifications

Available configurations	CMV-2
Oxygen measurement (zirconia sensor)	Standard
Carbon dioxide measurement (dual wave infrared)	Optional
Control of MAP Mix 8000	Yes
Number of test programs	32
Measuring range	0-100%
Resolution	0 ₂ : 0.001% / CO ₂ : 0.1%
Sensor accuracy at 1% $\rm O_2$ and 20% $\rm CO_2$	± 0.01% oxygen and ± 0.8% carbon dioxide
Heating time	10 min
Dimensions & weight	Sensor module: 160 x 260 x 340 mm (HxWxD), 10.4 kg Extermal display: 150 x 200 x 100 mm (HxWxD), 5.5 kg Display for built-in: 129 x 213 x 76 mm (HxWxD), 4.4 kg
Power supply	100-240 VAC, 50-60 Hz
Buffer tank measurement	Optional
Display available	Black box (no display - OEM integration only) Stand alone (IP 65) Built-in (IP 52)
Connections	2 x RS232C for external printer, PC connection, gas mixer and 4 relays (Ready + 3 alarms)
Compliances	८

Specifications subject to change without notice - further specifications are available in the User Guide.





Dansensor A/S Rønnedevej 18 4100 Ringsted, Denmark Tel +45 57 66 00 88 Fax +45 57 66 00 98 info@dansensor.com www.dansensor.com