

Dansensor®

MAP Check 3

REDUCE YOUR GAS CONSUMPTION WITH GasSave



Benefits

- Enables major gas savings with optional GasSave function or when paired with Dansensor MAP Mix Provectus gas mixer
- Logs and displays actual gas consumption for easy traceability with GasSave function
- Reduces labor and waste costs compared to manual testing
- Avoid recalls/repacking by stopping packaging machines if machine exceed preset limits
- Reduces work area CO₂ levels to protect employees

Features

- 5" color touch screen
- Improved data logging capabilities with USB and Ethernet
- Ability to control Dansensor MAP Mix Provectus gas mixer
- Delivered with PC software
- Option: 3-channel multiplexer
- Extended remote monitoring and control options with Modbus TCP

On-line gas analyser for quality assurance on MAP-enabled flow packaging machines

MAP is the future. But companies using more gas than necessary to produce MAP products run the risk of becoming history.

That's why we've designed this gas analyzer to be so precise. With the Dansensor® MAP Check 3, the gas target you set is the gas dosage you get. It eliminates the all-too-common problem of well-intentioned operators using too much gas, without realising its effect on production costs.

The only thing the Dansensor MAP Check 3 increases is your flexibility. It lets you combine monitoring of gas content on a vertical or horizontal flow packaging machine with real-time control of package flushing via an advanced GasSave function. For most manufacturers, this translates into a 20-50% decrease in gas consumption!

It also improves reliability and efficiency. Unlike random, off-line quality control, on-line quality assurance with the Dansensor MAP Check 3 means that every package is tested — far more quickly and efficiently than with manual testing. And if there's a problem, production stops automatically, helping to avoid recalls or the need to repack entire batches.

HOW DOES IT WORK?

1: Before running the Dansensor MAP Check 3 for the first time, enter individual product programmes on the analyzer for each product to be packed on the machine. Thereafter, simply select the correct programme, which automatically sets the correct alarm levels and target gas levels.

2: When the packaging machine is running, Dansensor MAP Check 3 continuously measures the residual oxygen and/or carbon dioxide.

3: If the oxygen or carbon dioxide level is close to the limits, Dansensor MAP Check 3 notifies the operator. If the limits are exceeded, Dansensor MAP Check 3 stops the packaging machine.

4: If equipped with GasSave or connected to the Dansensor MAP Mix Provectus, Dansensor MAP Check 3 automatically adjusts the gas flushing of your product according to the residual oxygen. This prevents incorrect residual oxygen levels and reduces gas costs.

TOP: Shown with optional IP45 accessory kit for improved water protection



Dash-gastec-MAP Check 3-EN-4

Technical Specifications

| Available sensors | O ₂ -Sensor | CO ₂ -Sensor |
|----------------------------------|---|---|
| Key features | Our fastest and most accurate oxygen sensor 0 - 100% range | Temperature controlled dual beam infrared carbon dioxide sensor, 0 - 100% range |
| Accuracy | ± 0.01% absolute range below 1% O ₂ ± 1% relative in range above 1% O ₂ | ± 0.5% absolute ± 1.5% relative of reading |
| Heating time | 10 Min. | 8 Min. |
| General standard features | | |
| Models | Available with LCD display or as "Black Box" without display | |
| Connections | 2 x RS232C, LAN 10/100 Mbit (Modbus TCP), USB, current or voltage output, 24 VDC logic for start/stop of machine and alarms | |
| Power supply | 103 -132 / 207-264 VAC (auto ranging), 47- 63 Hz | |
| Dimensions | 192 x 230 x 375 mm (H x W x D) | |
| Weight | 8.5 - 11.5 kg (depending on model) | |
| Compliances | CE | |
| GasSave (optional) | | |
| Gas media | Any mix of dry O ₂ , CO ₂ , N ₂ or Ar (0°C to +50°C gas temperature) | |
| Gas inlet pressure | 2 to 10 bar | |
| Pressure drop | Example: 1 bar at 10 bar input pressure | |
| Gas flow | 6 to 500 l/min | |
| Flow measuring | Total and daily consumption | |
| Multiplexer (optional) | | |
| Number of inputs | 3 (Channel priority: Selectable, 1-2-3- or 1-2-1-3-) | |
| Accessories (optional) | | |
| Protection kit | IP45 protection (NEMA 3S) | |
| Bracket, assembly | Can be combined with MAP Mix Provectus and MAP Check 3 Pressure: 2 brackets, 8 screws | |

Specifications subject to change without notice.