MAP Check 3

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

A smarter way to control your MAP process

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 analyser to be so precise. With the 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 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 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.

Benefits

- Enables major gas savings with optional GasSave function or when paired with MAP Mix Provectus gas mixer
- Logs and displays actual gas consumption for easy traceability with GasSave function
- Reduces labour and waste costs compared to manual testing
- Avoids recalls/repacking by stopping packaging machine if machine exceeds preset limits
- Reduces work area CO_2 levels to protect employees

Features

- 5" colour touch screen
- Improved data logging capabilities with USB, Ethernet, TCP Modbus
- Ability to control MAP Mix Provectus gas mixer
- Delivered with PC software
- **OPTION:** 3-channel multiplexer

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HOW DOES IT WORK?

1: Before running the MAP Check 3 for the first time, enter individual product programmes on the analyser 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, 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, MAP Check 3 notifies the operator. If the limits are exceeded, MAP Check 3 stops the packaging machine.

4: If equipped with GasSave or connected to the MAP Mix Provectus, 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

PBI-DS-Dash-gastec-MAP Check 3-EN-2

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 above1% 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, depending on back pressure and flow	
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 (better than NEMA 3S)	
Bracket, assembley	2 brackets, 8 screws	

Specifications subject to change without notice.

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