

Fast accurate MAP headspace analysis for gas flushed food and pharmaceutical products



Applications

Fresh Meat	Cooked Meat	Vegetables	Salads
Bakery	Snack Foods	Ready Meals	Fish
Pharmaceutical Vials		Pharmaceutical Packaging	

Features & Benefits

- Easy to use touch screen
- 5 different test methods
- Easy to set up and use
- Intuitive menu
- Auto calibrate
- Auto diagnosis
- Set tests for pass or fail
- Printer option
- Computer software option
- Waterproof option

Technical Specifications

Sensor Type

GS1 and GS1W	Oxygen 0 to 100%, Zirconia, solid state, ultra low volume
GS2 and GS2W	Carbon Dioxide 0 to 100%, dual wavelength, Infra-red
GS3 and GS3W	Oxygen 0 to 100%, Zirconia, solid state, ultra low volume Carbon Dioxide 0 to 100%, dual wavelength, Infra-red Balance Gas 0 to 100%, Arithmetic
Response time	3 seconds
Minimum volume of sample gas	Extremely small, dependent on equilibrium levels. Consult factory.
Accuracy:	Oxygen 10 to 100% 0.2% absolute (max 2% of reading) and ± 1 on the last digit. 1 to 9.99% 0.02% absolute (max 2% of reading) and ± 1 on the last digit. 0 to 0.999% 0.005 % absolute and ± 1 on the last digit.
	Carbon Dioxide $\pm 0.5\%$ absolute and $\pm 1.5\%$ of reading
Range selection	Automatic to 3 decimal places Oxygen: 0.001% to 99.9% CO ₂ : 0.1% to 99.9%
Display type	Wide angle 95mm x 55mm 4.5" High Resolution Touchscreen LCD

Operating conditions

Sample connections	Needle probe, can piercing station or direct syringe injection
Alarms	Programmable high/low limits for each measured gas, individual setting for up to 99 product, user and production line codes. Screen and printed display of high/low alarm conditions
Internal datalog	Stores over 1000 measurement results and alarm conditions
Communications interfaces	Serial computer interface for reports and data logging
Auto diagnostic routine	Initiated upon power up
Auto-cal	Auto calibration routine standard
Auto pass/fail	User programmable. Screen and printed display of alarm conditions
Auto test sequencing	Initiated by sample probe insertion into pack

Options

Internal Printer	Prints the results and alarms for each test
Flexible Package Kit	Everything required for analysis from standard packets and pouches
Can Piercing Station	For analysis from rigid cans and jars
Carry Case	Aluminium framed flight case
Data Transfer Software	For configuration and downloading of reports and internal datalog
Syringe Direct Injection	Manually inject the sample to the instrument
Electrochemical Cell	Electrochemical oxygen cell in place of zirconia

Power Requirements

Mains power	90-260 Vac, 50/60 Hz, 50 VA
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Systech Illinois have 30 years experience of providing gas analysis solutions for a wide range of industries. From our manufacturing plants in the UK and U.S. we produce gas analysers for industrial process industries, headspace analysers for monitoring gas flushing of food products, and our range of permeation analysers.

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