

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

GS1&GS1W Oxygen

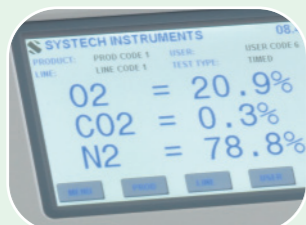
GS2&GS2W Carbon Dioxide

GS3&GS3W Oxygen & Carbon Dioxide

GS1, GS2 & GS3



Bench Mount
Weight: 4.5 kg
140H x 390W x 270D (mm)
Stainless steel and stove enameled aluminium



Can Piercing Station

The next generation Gaspac Advance from Systech Illinois. Fast, accurate and simple to use yet full of the most advanced features available in headspace analysis.

All Gaspac Advance headspace analysers offer automatic calibration, diagnostics and control.

The Gaspac Advance offers consistently reliable results and simplicity in operation allowing you to maximise your production efficiency.

Test Easily

Using the large buttons and big clear display; testing is simple, errors are eliminated and no special operator training is required.

Test Quickly

Using AutoSense allows many packs to be tested with just one button press. Saving you time and making your QA department more efficient.

Test all pack sizes

One analyser can test all pack sizes and very low volumes. Rigid cans and jars can be analysed with the simple to use Can Piercing station.

Test how you want to

With Timed tests, AutoSense, Peak / Valley, Syringe Direct Injection or Continuous testing. Fast configuration and fast selection, provides the test method that is best for you.

Simple configuration

Simple configuration for all test types and methods – no special training required to use all the highly advanced features.

Auto-Cal & Auto diagnosis

Ensures the instrument is always performing to its highest degree of accuracy - essential for HACCP compliance.

The Gaspac Advance is also available with an electrochemical oxygen sensor (GS1L, GS3L) for measurements requiring only % levels of oxygen. All models are available in a waterproof carrying case.



GS1W, GS2W & GS3W

Waterproof Carrying Case
Weight: 6.5 kg
170H x 410W x 330D (mm)
Impact resistant ABS



Easy to see Pass / Fail messages

Speeds up the analysis process and removes any uncertainty with interpreting measurements.

Built-in printer option

Makes the documentation process a whole lot simpler. No cables and more space on the bench top.

Software

The GS Data Manager Software allows you to download results stored on your analyser and upload new settings. You can also search through your stored data by time, date, user, production line or any of the product information.

Analysers Configuration View

Users	Lines	Products
1 USER CODE 1	1 LINE CODE 1	1 PRO CODE 1
2 USER CODE 2	2 LINE CODE 2	2 PRO CODE 2
3 USER CODE 3	3 LINE CODE 3	3 PRO CODE 3
4 USER CODE 4	4 LINE CODE 4	4 PRO CODE 4
5 USER CODE 5	5 LINE CODE 5	5 PRO CODE 5
6 USER CODE 6	6 LINE CODE 6	6 PRO CODE 6
7 USER CODE 7	7 LINE CODE 7	7 PRO CODE 7
8 USER CODE 8	8 LINE CODE 8	8 PRO CODE 8
9 USER CODE 9	9 LINE CODE 9	9 PRO CODE 9
10 USER CODE 10	10 LINE CODE 10	10 PRO CODE 10
11 USER CODE 11	11 LINE CODE 11	11 PRO CODE 11
12 USER CODE 12	12 LINE CODE 12	12 PRO CODE 12
13 USER CODE 13	13 LINE CODE 13	13 PRO CODE 13
14 USER CODE 14	14 LINE CODE 14	14 PRO CODE 14
15 USER CODE 15	15 LINE CODE 15	15 PRO CODE 15
16 USER CODE 16	16 LINE CODE 16	16 PRO CODE 16
17 USER CODE 17	17 LINE CODE 17	17 PRO CODE 17
18 USER CODE 18	18 LINE CODE 18	18 PRO CODE 18
19 USER CODE 19	19 LINE CODE 19	19 PRO CODE 19
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21 USER CODE 21	21 LINE CODE 21	21 PRO CODE 21
22 USER CODE 22	22 LINE CODE 22	22 PRO CODE 22
23 USER CODE 23	23 LINE CODE 23	23 PRO CODE 23
24 USER CODE 24	24 LINE CODE 24	24 PRO CODE 24
25 USER CODE 25	25 LINE CODE 25	25 PRO CODE 25
26 USER CODE 26	26 LINE CODE 26	26 PRO CODE 26
27 USER CODE 27	27 LINE CODE 27	27 PRO CODE 27
28 USER CODE 28	28 LINE CODE 28	28 PRO CODE 28
29 USER CODE 29	29 LINE CODE 29	29 PRO CODE 29
30 USER CODE 30	30 LINE CODE 30	30 PRO CODE 30
31 USER CODE 31	31 LINE CODE 31	31 PRO CODE 31

Select Product	Alarm Settings	Alarms View
1 Oxygen	Level: Low	High/Low
2 Oxygen	Level: High	High/Low
3 Carbon Dioxide	Level: High	High/Low
4 Carbon Dioxide	Level: Low	High/Low
5 Nitrogen	Level: Low	High/Low

Pass/Fail	Date/Time	User Code	Line Code	Product Code	Result
Pass	10/06/2009 11:29:08	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:29:45	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:29:54	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:30:54	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:31:01	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:31:08	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:31:15	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:31:22	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	10/06/2009 11:32:29	USER CODE 9	LINE CODE 1	500 590G 46	
Fail	10/06/2009 11:27:07	USER CODE 9	LINE CODE 1	500 590G 46	
Fail	10/06/2009 11:27:27	USER CODE 9	LINE CODE 1	500 590G 46	
Pass	04/06/2009 16:22:42	INSTRUMENT	LINE CODE 1	500 590G 46	
Fail	20/05/2009 14:54:06	USER CODE 9	LINE CODE 1	500 590G 46	

Data Download View

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

Power Requirements

Mains power	90-260 Vac, 50/60Hz – Automatically sensed
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Systech Illinois have over 25 years experience of providing 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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