

## 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

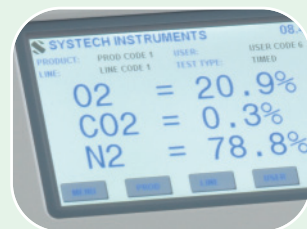
## GS2&GS2W Carbon Dioxide

## GS3&GS3W Oxygen & Carbon Dioxide

### GS1, GS2 & GS3



Bench Mount  
Weight: 9.9 lbs  
5.51H x 15.35W x 10.63D (inches)  
Stainless steel and stove enameled aluminum



Can Piercing Station

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

All Gaspace Advance headspace analyzers offer automatic calibration, diagnostics and control.

The Gaspace 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 analyzer can test all pack sizes and very low volumes. Rigid cans and jars can be analyzed 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 diagnostic

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

The Gaspace 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: 14.3 lbs  
6.7H x 16.14W x 13D (inch)  
Impact resistant ABS

### Easy to see Pass / Fail messages

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

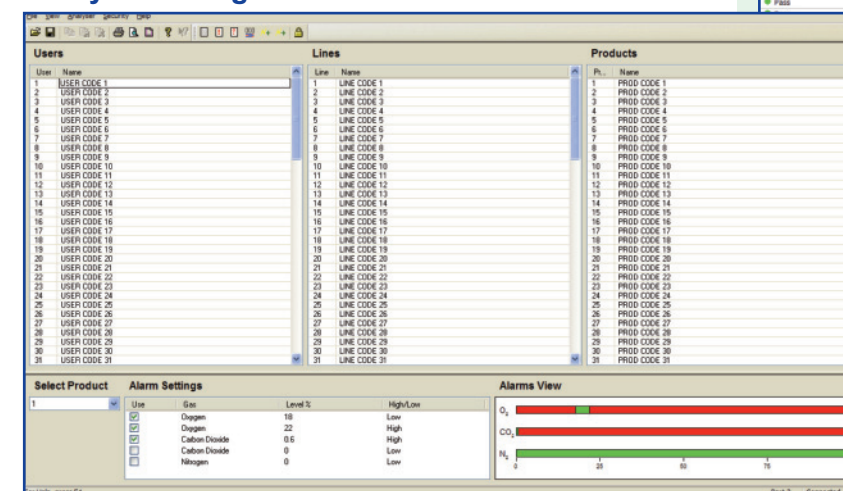
### Built-in printer option

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

### Software

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

### Analyzer Configuration View



Pass/Fail	Date/Time	User	Line	Product	Result
Pass	10/06/2009 11:29:49	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:29:54	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:30:54	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:31:01	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:31:08	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:31:15	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:31:22	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:31:31	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:32:02	USER CODE 9	LINE CODE 1	500 550G 46	
Pass	10/06/2009 11:32:29	USER CODE 9	LINE CODE 1	500 550G 46	
Fail	10/06/2009 11:27:27	USER CODE 9	LINE CODE 1	900G	
Fail	10/06/2009 11:27:27	USER CODE 9	LINE CODE 1	900G	
Pass	04/06/2009 15:55:06	INSTRUMENT	LINE CODE 1	AIR	
Pass	14/06/2009 16:23:42	INSTRUMENT	LINE CODE 1	AIR	
Pass	20/05/2009 14:54:06	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 14:54:22	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 14:54:28	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 14:54:39	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:14:32	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:14:39	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:14:47	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:14:54	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:15:00	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:15:08	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:15:17	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:15:27	USER CODE 9	LINE CODE 1	COFFERS	
Pass	20/05/2009 15:15:30	USER CODE 9	LINE CODE 1	COFFERS	

### Data Download View

Contact Lens  
Annealing  
Ceramics Com  
Oxygen Defi  
High Pur  
Alloys an  
Quality  
Contact  
Marketing  
on Analysing  
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Control  
Annealing  
Ceramics Com  
Oxygen Defi  
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## Technical Specifications

<b>Sensor Type</b>	
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 $\pm 1$ on the last digit. 1 to 9.99% 0.02% absolute (max 2% of reading) and $\pm 1$ on the last digit. 0 to 0.999% 0.005 % absolute and $\pm 1$ 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 <sub>2</sub> : 0.1% to 99.9%
Display type	Wide angle 3.74" x 2.16" 4.5" High Resolution Touchscreen LCD
<b>Operating conditions</b>	
Sample connections	Sample and ambient temperature: 50 to 104F (10 to 40°C)
Alarms	Needle probe, can piercing station or direct syringe injection
Internal datalog	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
Communications interfaces	Stores over 1000 measurement results and alarm conditions
Auto diagnostic routine	Serial computer interface for reports and data logging
Auto-cal	Initiated upon power up
Auto pass/fail	Auto calibration routine standard
Auto test sequencing	User programmable. Screen and printed display of alarm conditions
<b>Options</b>	
Internal Printer	Initiated by sample probe insertion into pack
Flexible package kit	Prints the results and alarms for each test
Can Piercing Station	Everything required for analysis from standard packets and pouches
Carry Case	For analysis from rigid cans and jars
Data Transfer Software	Aluminium framed flight case
	For configuration and downloading of reports and internal datalog
<b>Power Requirements</b>	
Mains power	90-260 Vac, 50/60Hz – Automatically sensed

Systech Illinois have over 25 years experience providing analysis solutions for a wide range of industries. From our manufacturing plants in the U.S and UK we produce gas analyzers for industrial process industries, headspace analyzers for monitoring gas flushing of food products and our range of permeation analyzers.

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