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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

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## GS1&GS1W Oxygen GS2&GS2W Carbon Dioxide

GS1, GS2 & GS3









**Can Piercing Station** 

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

All Gaspace Advance headspace analysers 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 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 it's highest degree of accuracy - essential for HACCP compliance.

### GS3&GS3W Oxygen & Carbon Dioxide

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: 6.5 kg 170H x 410W x 330Dmm Impact resistant ABS



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

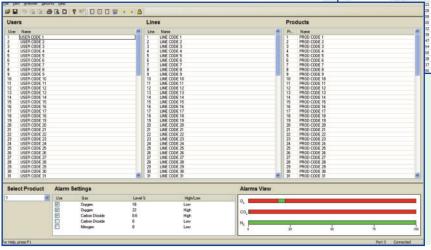
#### **Built-in printer option**

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.

#### **Analyser Configuration View**







	10/06/2009 11:2	23124	USER CODE 9	LIFE CODE 1	300 3300 49
	10/06/2009 11:2	30:54	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11:3	31:01	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11:3	31:08	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11:2	31:15	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11/3	31:22	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11:3	31:31	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11:2	12:22	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11/3	32:29	USER CODE 9	LINE CODE 1	500 550G 49
	10/06/2009 11:2	27:07	USER CODE 9	LINE CODE 1	900G
	10/06/2009 11:2	27:27	USER CODE 9	LINE CODE 1	900G
	04/06/2009 15:5	55:06	INSTRUMENT	LINE CODE 1	AIR
	04/06/2009 16:2	23:42	INSTRUMENT	LINE CODE 1	AIR
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**Data Download View** 

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#### **Technical Specifications**

Sensor Type

GS1 and GS1W Oxygen 0 to 100%, Zirconia, solid state, ultra low volume

GS2 and GS2W Carbon Dioxide 0 to100%, 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

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% CO2: 0.1% to 99.9%

Display type Wide angle 95mm x 55mm 4.5" High Resolution Touchscreen LCD

Operating conditions Sample and ambient temperature: 10 to 40°C

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

Systech Instruments have over 25 years experience of providing analysis solutions for a wide range of industries. From our manufacturing plant in the UK 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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Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

UK Office Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.