

Gaspace Advance Micro



Fast accurate MAP analysis for small volumes of headspace in gas flushed food and pharmaceutical products



Applications

Pharmaceutical Vials	Ampoules	Pharmaceutical Packaging	Fish
Fresh Meat	Cooked Meat	Vegetables	Salads
Snack Foods	Ready Meals	Wine	Coffee Pods

Features & Benefits

- Measurement of less than 1cc
- Easy to use touch screen
- 5 different test methods
- Easy to set up and use
- Intuitive menu
- Auto calibrate and auto diagnosis
- Set tests for pass or fail
- Built in Printer
- Computer software option with easy keyboard entry of data
- Waterproof option
- Documentation for Quality Management Systems (IQ, OQ, PQ)
- 21CFR II Compliant

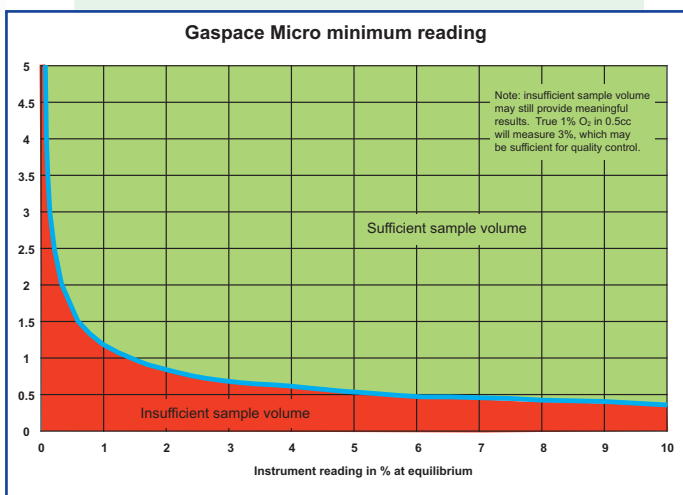
GS1M/W Oxygen

GS1M & GS3M



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

Test small headspaces



Vial Autosampler Option

Fast, accurate and simple to use the Gaspac Advance Micro is full of the most advanced features available in headspace analysis.

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

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

Test small headspaces

The Micro is specifically designed to allow analysis of small headspaces as low as 0.2cc.

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 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.

GS3M/W Oxygen & Carbon Dioxide

The Gaspac Advance Micro is also available in a waterproof carrying case (all models).



GS1MW & GS3MW

Waterproof Carrying Case
Weight: 6.5 kg
170H x 410W x 330Dmm
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.

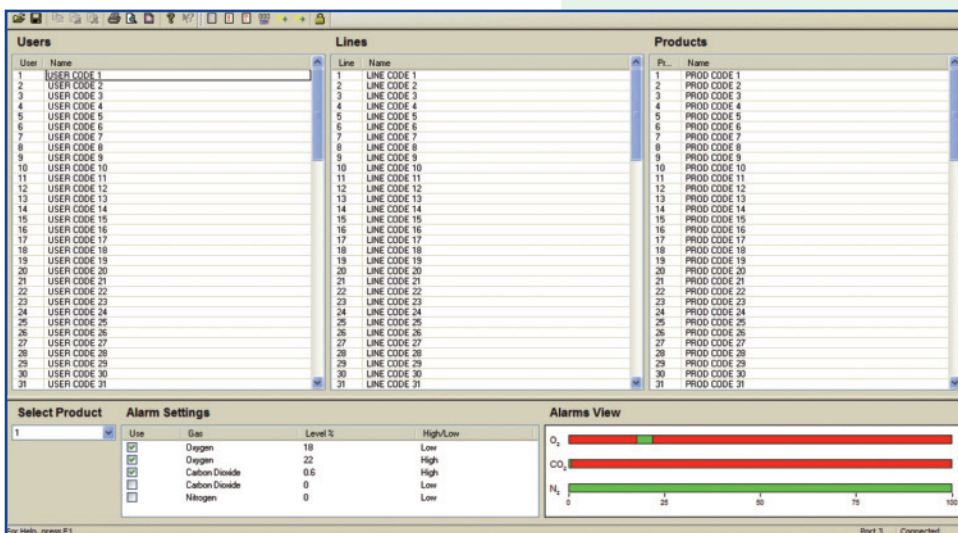
Software

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.

Result	Date/Time	User	Line	Product
Pass	10/06/2009 11:29:38	USER CODE 9	LINE CODE 1	500 550G 46
Pass	10/06/2009 11:29:45	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 11:30:01	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 11:31:22	USER CODE 9	LINE CODE 1	500 550G 46
Pass	10/06/2009 11:32:22	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 11:27:07	USER CODE 9	LINE CODE 1	900G
Fail	10/06/2009 11:27:07	USER CODE 9	LINE CODE 1	900G
Pass	04/06/2009 15:55:06	INSTRUMENT	LINE CODE 1	AIR
Pass	04/06/2009 15:23:42	INSTRUMENT	LINE CODE 1	AIR
Fail	20/05/2009 14:54:06	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 14:54:22	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 14:54:28	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 14:54:59	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:00:00	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:14:32	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:14:39	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:14:47	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:14:54	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:15:00	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:15:28	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:15:37	USER CODE 9	LINE CODE 1	DIPPERS
Fail	20/05/2009 15:15:50	USER CODE 9	LINE CODE 1	DIPPERS

Data Download View

Analyser Configuration View



Control Lens
Annealing ■ V
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■ Contact Len
Annealing ■ V
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Oxygen Defic
■ High Purity
Alloys and P
■ Controlled
Contact Lens
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Technical Specifications

Sensor Type

GS1M and GS1MW

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

GS3M and GS3MW

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

See graph on page 2, 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%
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: 5 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

Printer

Prints the results and alarms for each test

Options

Flexible package kit

Everything required for analysis from standard packets and pouches

Can Piercing Station

For analysis from rigid cans and jars

Vial Autosampler

Automatic laboratory vial analysis

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, $\pm 10\%$, 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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