

# GS Waterproof

## Robust, portable and waterproof headspace gas analyser for factory packing environments

The GS Waterproof is easy to carry as well as easy to use and has been designed to be the toughest headspace gas analyser on the market. It can be conveniently transported between packing lines and factory locations with its ergonomic carrying handle. The case is IP67 rated which provides NEMA 6 protection and is corrosion proof, crush proof and waterproof when closed.

Full of the most advanced features available in headspace analysis including automatic calibration, diagnostics and control. The GS Waterproof offers consistently reliable results and simplicity in operation allowing you to maximise your production efficiency.



### Applications

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

### Features & Benefits

- Portable with an ergonomic handle
- Waterproof (when case is closed), corrosion proof and crush proof
- Durable and robust, IP67/ NEMA 6 case
- Easy to set up and use with a touch screen
- 5 different sample test methods
- Auto calibrate and diagnosis
- Set tests for pass or fail
- Printer option
- Computer software option
- High level of service and support

## Technical Specifications

### Sensor Type

GS1W	Oxygen 0 to 100%, Zirconia, solid state, ultra low volume
GS2W	Carbon Dioxide 0 to 100%, dual wavelength, Infra-red
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 95mm x 55mm, 4.5" High Resolution Touchscreen LCD
Dimensions	170H x 410W x 330D (mm)
Weight	6.5kg

### 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
Data Transfer Software	For configuration and importing logged data into Excel
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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