Robust, portable and waterproof headspace gas analyzer 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 analyzer 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
- Bakery
- Pharmaceutical Vials
- Cooked Meat
- Snack Foods
- Vegetables
- Ready Meals
- Salads
- Fish
- Pharmaceuticals
- 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

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS1W Oxygen</td>
<td>Oxygen 0 to 100%, Zirconia, solid state, ultra low volume</td>
</tr>
<tr>
<td>GS2W Carbon Dioxide</td>
<td>Carbon Dioxide 0 to 100%, dual wavelength, Infra-red</td>
</tr>
<tr>
<td>GS3W Oxygen</td>
<td>Oxygen 0 to 100%, Zirconia, solid state, ultra low volume</td>
</tr>
<tr>
<td></td>
<td>Carbon Dioxide 0 to 100%, dual wavelength, Infra-red</td>
</tr>
<tr>
<td></td>
<td>Balance Gas 0 to 100%, Arithmetic</td>
</tr>
</tbody>
</table>

### 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
±0.5% absolute and ±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 3.74" x 2.16", 4.5" High Resolution Touchscreen LCD

### Dimensions
6.7H x 16.14W x 13D inches

### Weight
14.3 lbs

### Operating conditions
Sample and ambient temperature: 32 to 95°F

### 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 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