

## TecPen MAP Oxygen and CO2 Analyzer

### Portable Trace Gas Sampler for Modified Atmosphere Packaging and Headspace Gas Analysis

- Designed to measure oxygen and CO2 contents in pierceable containers
- Accurate optochemical oxygen sensor, LED NDIR CO2 Sensor
- Measurement in 10 seconds
- Suitable for low gas volumes in vacuum sealed packaging
- Data can be logged and downloaded via USB
- Industry-standard .CSV files
- Easy to use and read with built-in display
- High flexibility due to handy, compact design
- Replaceable particulate filter



#### APPLICATIONS

- Modified atmospheric packaging (MAP) QC
- Pharmaceuticals and biotechnology
- Hygiene detection (pathogenic), microorganism growth
- Biochemical and molecular biology research
- Sterile packaging, desiccant validation
- Cell culture vessels, Infusion containers
- Micro-bioreactors
- *Not for use in organic or corrosive gases*

Revision 4

For more information contact us at 386-872-7668, [Info@gaslab.com](mailto:Info@gaslab.com) or [www.gaslab.com](http://www.gaslab.com)

## SPECIFICATIONS

TS-System	TecPen MAP O2/CO2 Combo		
<b>Measurement range</b>	0-5%		0-100% CO2
	<b>Range</b>	<b>Accuracy</b>	<b>Accuracy</b>
	0-0.5%	± 2% Mev**	±70 ppm +/- 5% of measuring value
	0.5-2.5%	±3% Mv*	(100% Range ±300 ppm +/-5% of measuring value
	2.5-5%	±5% Mv*	
<b>Resolution</b>	0.001%		0.01%
<b>Response time at 25°C/ 77°F</b>	<150ms		10s
<b>Pump flow max.</b>	67 mL		
<b>Temp. range Min./Max</b>	-10°C/ +60°C		-25°C/55°C
	14°F/140°F		-13°F/ 131°F
<b>Medium</b>	Gas		
<b>Power supply</b>	5V USB and LiPo battery		
<b>Rechargeable battery lifetime</b>	> 3 hours per charge		
<b>Data Interface</b>	USB		USB
<b>Temperature compensation</b>	10-30°C		10-30°C
	50-86 °F		50-86°F
<b>Display</b>	OLED Display		
<b>Cleaning housing</b>	no organic solvents. 40% EtOH		
<b>Parts touching sample</b>	St.1.4404/ PTFE/ Glas		
<b>Case</b>	aluminum anodized		
<b>Protection</b>	IP65		
<b>Full service interval by Manufacturer (includes necessary retrofitting)</b>	3 years		
<b>Life time of sensor spot (protective atmosphere; 0-40°C)</b>	24 months		24 months
<b>Sensor cap replacement interval</b>	2 years		n.a
<b>Recommended zero-point adjustment interval by customer</b>	6 months		adjustment to air at power on
<b>Warranty</b>	1 Year ex works		

\*\*Mev = measured end value

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## TECPEN MAP INCLUDES

- TecPen MAP O2+CO2
- 1 USB Cable
- 1 USB Stick
- 1 Case
- 12 Septum
- 2 Sampling Needles 25/0.8
- 2 Particle filters
- 1 Hose adapter

