

## Coy Anaerobic Monitor (CAM-12)

Gas Analyzer for O<sub>2</sub> & H<sub>2</sub>



- Real time digital monitoring
- User replaceable Sensors (no down time)
- Adjustable Alarms

# Coy Anaerobic Monitor (CAM-12)

## Gas Analyzer for O<sub>2</sub> & H<sub>2</sub>



The CAM-12 is the only analyzer that offers both O<sub>2</sub> (ppm) and H<sub>2</sub> (%) monitoring in one unit for the same price as most conventional Oxygen monitors. It provides a constant digital display of

both levels in your anaerobic chamber utilizing H<sub>2</sub> and palladium catalyst for O<sub>2</sub> control.

## Adjustable Alarms

The high O<sub>2</sub> alarm is adjustable through the full scale of the sensor allowing monitoring to be set to match organism requirements. H<sub>2</sub> alarms for both low H<sub>2</sub> and high H<sub>2</sub> can be set to trigger before reaching undesirable levels for safety and function. Too little H<sub>2</sub> will affect the ability to maintain low O<sub>2</sub> and high H<sub>2</sub> levels are potentially dangerous.

## General Specifications

OVERALL DIMENSIONS	6.25" WIDE X 6.31" DEEP X 3.35" HIGH (15.9 cm x 16.03 cm x 8.52 cm)
WEIGHT	~1.7 lbs (0.77 kg) (~3.0 lbs shipping weight)
POWER REQUIREMENTS	~15 watts 100 – 240VAC, 50 - 60 Hz
OPERATING ENVIRONMENT*	15 to 42 °C, < 20% CO <sub>2</sub> Up to 90% Relative Humidity, non-condensing

\* for gas mixes containing anything except H<sub>2</sub>, N<sub>2</sub>, and/or <20% CO<sub>2</sub>, consult Coy Laboratory Products as a CAM-12S may be more appropriate for your application.

## User Replaceable Sensors



Access through the rear panel allows easy and quick sensor swap for recalibration or replacement in the anaerobic chamber without down time. Sensor calibration data is kept on the sensors so a fast down load of new sensor data to the CAM-12 is all it takes to get accurate measurements.

## CO<sub>2</sub> Compensation

The CAM-12 O<sub>2</sub> sensor, is unaffected by CO<sub>2</sub> or changes in CO<sub>2</sub> levels. The H<sub>2</sub> sensor may be affected by CO<sub>2</sub>; however, the user can input the background CO<sub>2</sub> level up to 20% so that the appropriate offset can be applied to allow for accurate H<sub>2</sub> measurement. For CO<sub>2</sub> levels greater than 20%, a CAM-12S with factory-set specific CO<sub>2</sub> level compensation is available. Multiple H<sub>2</sub> sensors can be provided with the CAM-12S for multiple specific CO<sub>2</sub> levels enabling sensor swapping in the anaerobic chamber as needed.

## CAM-12 : Performance Specifications

	O <sub>2</sub>	H <sub>2</sub>
Full Scale Measurement Range	0-2000 ppm (readings may be displayed for higher levels)	0-10% (capable of higher values; however, unit should not be utilized in flammable mixtures)
Resolution	1ppm from 0-1500 ppm, & 5ppm from 1500-2000 ppm	0.1% from 0-4.0%
Accuracy	20ppm up to 700ppm	1.0 up to 10%
Zero Drift Due to Temperature	< 1ppm / °C; The factory calibration temperature is 29 °C	< 0.1% / °C; The factory calibration temperature is 29 °C

## Gas Monitor Features

- ➔ NO Routine Maintenance Procedures
- ➔ Adjustable Alarm Levels
- ➔ User replaceable Sensors
- ➔ Preset Factory Calibration
- ➔ Constant LCD Display
- ➔ Accuracy not user dependent
- ➔ Detects transient level changes

**WARNING:** Under no circumstances should the CAM-12 be used as a control or monitor for the introduction of pure hydrogen or any flammable mix of gas into an Anaerobic Chamber.



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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