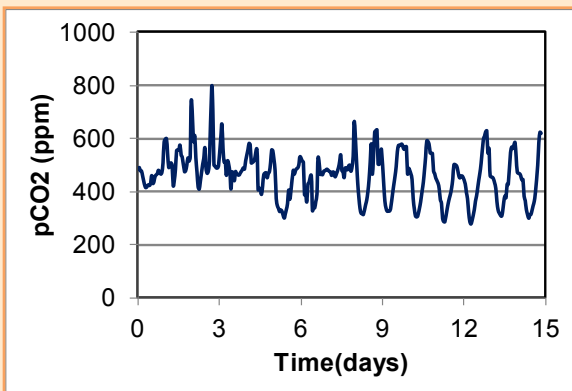




## C-sense in situ pCO<sub>2</sub> Sensors

C-sense probes are compact, lightweight sensors for measurement of the partial pressure of gas in liquids. Designed for applications involving immersion in water, oil, or water and oil mixtures, the sensors combine an oil-resistant interface with a compact, temperature-compensated non-dispersive infrared (NDIR) detector. Designed for integration, C-sense enables pCO<sub>2</sub> monitoring at a significantly lower price than traditional pCO<sub>2</sub> sensors.



pCO<sub>2</sub> data from Kaneohe Bay, Hawaii showing the large variability that can be seen in shallow coastal areas where coral reefs are growing.

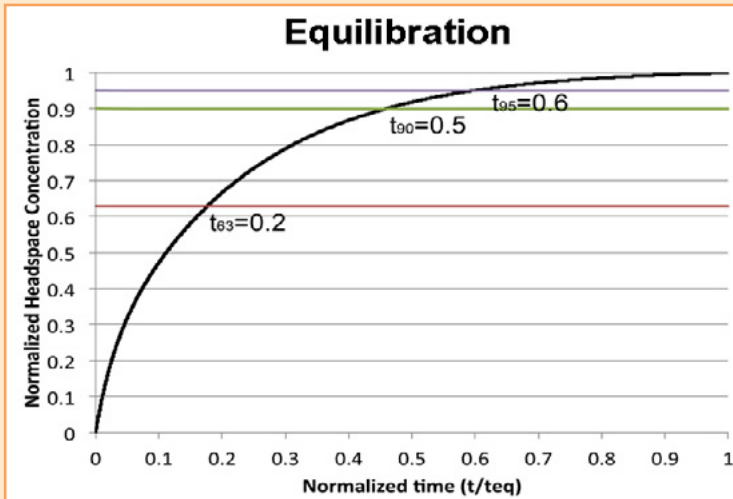
Data courtesy Pro-Oceanus Systems Inc.

## Highlights of the C-sense

- Available in 3 standard measurement ranges  
1000ppm  
2000ppm  
4000ppm
- Accuracy 3% of full scale
- Submersible to 600m
- Easily integrated: 4-pin analog output
- Small size: <2" x 8" and <1lb
- Low power consumption: 80mA @ 6V DC

## Applications

- Water quality monitoring
- Aquaculture
- Wastewater monitoring
- Reef monitoring
- Carbon capture storage monitoring
- Biofuel production



The C-sense will reach the t<sub>63</sub> level in ~3 minutes. The total time is about 15 minutes but this can be reduced to about 12 minutes if you use a water-pumped head. The analog output updates at once per second.

### C-sense Physical Specifications

Length x Diameter	8" x 1.97"; 20.3cm x 5 cm
Weight	<1 lb; 430 grams

### C-sense Environmental Specifications

Temperature Range	
Water Temp	-2 to 35C
Ambient Temp	-20 to 50C
Depth Range	600 meters

### C-sense Electrical Characteristics

Signal Output	0-5V DC
Supply Voltage	6-12V DC
Power Consumption	80mA @ 6 VDC (100mA during warmup)

### Ordering Information

INSTRUMENT*	PART NUMBER
C-sense, 1000ppm	2400-001
C-sense, 2000ppm	2400-002
C-sense, 4000ppm	2400-004

C-sense ACCESSORIES	PART NUMBER
Water-Pumped Head	2400-700
Copper Cutouts (30 pack)	2400-506
0.6 meter Pigtail Cable	105-2410
5 meter Pigtail Cable	105-2411
10 meter Pigtail Cable	105-2412
25 meter Pigtail Cable	105-2413
50 meter Pigtail Cable	105-2414

\*Higher ranges available by special order

### Contact Us

Toll-Free : 1.877.316.8049

Email : sales@turnerdesigns.com

Address:

Phone : 408.749.0994

Web : www.turnerdesigns.com

845 West Maude Avenue

Fax : 408.749.0998

Sunnyvale, CA 94085