

# CYCLOPS-7<sup>®</sup>

SUBMERSIBLE SENSORS



## Cyclops-7 Submersible Sensors

The CYCLOPS-7 line of submersible sensors is designed for integration into multi-parameter platforms requiring a high performance, compact sensor at a significantly lower price than traditional submersible sensors. The CYCLOPS-7 combination of price, performance and size makes the sensor very attractive for oceanographic, freshwater and dye tracing applications.

## Designed for Integration

Cyclops-7 was designed specifically for integration into a C6 Multi-Sensor Platform or any third-party platform that supplies power and datalogging.



## Cyclops-7 Highlights

- Integrates into a C6 Multi-Sensor Platform or any third-party platform
- Extremely small size
  - 5.7" x 0.9" (SSt or Ti)
  - 5.7" x 1.25" (Delrin)
- Affordable price / excellent value
- Very low power consumption
- Excellent turbidity rejection
- Interfaces with DataBank Handheld Datalogger
- Custom optics available : 260-900 nm

## Available Sensors

- Turbidity
- Chlorophyll *a in vivo*
- Blue Green Algae - Phycocyanin
- Blue Green Algae - Phycoerythrin
- Fluorescein Dye
- Rhodamine Dye
- PTSA Dye **New**
- CDOM
- Optical Brighteners for Wastewater Treatment
- Crude Oil
- Refined Fuels

*Custom Optics Available*

## Fluorometer Performance

Linearity: 0.99R<sup>2</sup>

APPLICATION	MINIMUM DETECTION LIMIT	DYNAMIC RANGE
Chlorophyll <i>a</i> *	0.025 µg/L	0-500 µg/L
CDOM	0.4 ppb QS**	0-2500 ppb QS**
Crude Oil	0.2 ppb PTSA***	0-2700 ppb PTSA***
Cyanobacteria	150 cells/mL	0-150,000 cells/mL
Optical Brighteners	0.6 ppb PTSA***	0-15,000 ppb PTSA***
Fluorescein Dye	0.01 ppb	0-500 ppb
PTSA Dye	0.01 ppb	0-650 ppb
Rhodamine Dye	0.01 ppb	0-1000 ppb
Turbidity	0.05 NTU	0-3000 NTU
Refined Fuels	2 ppb NS****	0-10,000 ppb NS****
BTEX	0.1 ppm	>2500 ppm

\* Chlorophyll specifications determined with Rhodomonas SP culture

\*\* Quinine Sulfate

\*\*\* 1,3, 6, 8 - Pyrenetetrasulfonic Acid Tetrasodium Salt

\*\*\*\* 1.5 Naphthalene Disulfonic Disodium Salt

## Physical Dimensions

Length x Diameter:

5.7" x 0.9"; 14.48 x 2.23 cm (SSt or Ti)

5.7" x 1.25"; 14.48 x 3.18 cm (Delrin)

Weight: 5.0 oz; 160 gm

## Environmental Characteristics

Temperature Range:

Ambient: 0 to 50 deg C

Water Temp: -2 to 50 deg C

Depth Range: 600 meters

Signal Output: 0 - 5 VDC

Supply Voltage Range: 3 - 15 VDC

Power Requirements: <300mW typical

## Ordering Information

### AVAILABLE INSTRUMENTS

Turbidity

Chlorophyll *a in vivo*

Blue Green Algae - Phycoerythrin

Blue Green Algae - Phycocyanin

Fluorescein Dye

Rhodamine Dye

PTSA Dye

CDOM

Optical Brighteners for Wastewater Treatment

Crude Oil

Refined Fuels

Contact Us for Custom Optics

**Titanium and Plastic Housings also available. Titanium and Plastic withstand corrosion better than stainless steel and are recommended for stationary deployments in highly corrosive environments.**

### 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

### CYCLOPS-7 ACCESSORIES

Solid Secondary Standard\*

Flowthrough Cap

Shade Cap

2 Foot Analog Cable with Locking Sleeve

5 Meter Analog Cable with Locking Sleeve

10 Meter Analog Cable with Locking Sleeve

25 Meter Analog Cable with Locking Sleeve

50 Meter Analog Cable with Locking Sleeve

\*only available for visible wavelengths

*DataBank Handheld Datalogger available.*

*For details visit [www.turnerdesigns.com](http://www.turnerdesigns.com).*