

CYCLOPS-7

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
- CDOM
- Optical Brighteners for Wastewater Treatment
- Crude Oil
- Refined Fuels New

Custom Optics Available

Fluorometer Performance

Linearity: 0.99R²

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 QS**	0-1500 ppb QS**
Cyanobacteria	150 cells/mL	0-150,000 cells/mL
Optical Brighteners	1 ppb QS**	0-15,000 ppb QS**
Fluorescein Dye	0.01 ppb	0-500 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

*** 1.5 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
 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

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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.*