

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 - 4.3" x 0.9"
- Affordable price / excellent value
- Very low power consumption
- Excellent turbidity rejection
- Interfaces with DataBank Handheld Datalogger
- Custom versions available

Available Sensors

- Turbidity
- Chlorophyll *a in vivo*
- Blue Green Algae - Phycocyanin
- Blue Green Algae - Phycoerythrin
- Fluorescein Dye
- Rhodamine Dye
- CDOM
- Crude Oil
- Optical Brighteners

Custom Optics Available

Fluorometer Performance

Linearity: 0.99R²

APPLICATION	MINIMUM DETECTION LIMIT	DYNAMIC RANGE
Chlorophyll <i>a</i> *	0.025 µg/L	0-300 µg/L
CDOM	0.2 ppb QS**	0-1000 ppb QS**
Crude Oil	0.1 ppm	0-1000ppm
Cyanobacteria	150 cells/mL	0-150,000 cells/mL
Optical Brighteners	0.002 ppb QS**	0-10,000 ppb QS**
Fluorescein Dye	0.01 ppb	0-500 ppb
Rhodamine Dye	0.01 ppb	0-500 ppb
Turbidity	0.05 NTU	0-3000 NTU

* Chlorophyll specifications determined with Rhodomonas SP culture

** Quinine Sulfate

Physical Dimensions

Length x Diameter: 4.3" x 0.9"; 14.0 x 2.2 cm

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	PART NUMBER
Turbidity	2100-000-T
Chlorophyll <i>a in vivo</i>	2100-000-C
Blue Green Algae - Phycoerythrin	2100-000-E
Blue Green Algae - Phycocyanin	2100-000-P
Fluorescein Dye	2100-000-F
Rhodamine Dye	2100-000-R
CDOM	2100-000-U
Crude Oil	2100-000-O
Optical Brighteners	2100-000-B

CYCLOPS-7 ACCESSORIES	PART NUMBER
Solid Secondary Standard*	2100-900
Flowthrough Cap	2100-600
Shade Cap	2100-700
2 Foot Analog Cable with Locking Sleeve	2100-750
5 Meter Analog Cable with Locking Sleeve	2100-755
10 Meter Analog Cable with Locking Sleeve	2100-751
25 Meter Analog Cable with Locking Sleeve	2100-752
50 Meter Analog Cable with Locking Sleeve	2100-753

*only available for visible wavelengths

Contact Us for Custom Optics

Titanium Housing also available. Titanium withstands corrosion better than stainless steel and is recommended for stationary deployments in highly corrosive environments

DataBank Handheld Datalogger also available.

For details visit www.turnerdesigns.com.

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