

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 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
- 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	0-300 µg/L
CDOM	0.2 ppb QS**	0-1000 ppb QS**
Crude Oil	0.1 ppm	0-1000 ppm
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
Refined Fuels	0.003 ppm NS***	0-500 ppm NS***
BTEX	0.1 ppm	0-250 ppm

* Chlorophyll specifications determined with Rhodomonas SP culture

** Quinine Sulfate

*** 1.5 Naphthalene Disulfonic Disodium Salt

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	CYCLOPS-7 ACCESSORIES	PART NUMBER
Turbidity	2100-000-T	Solid Secondary Standard*	2100-900
Chlorophyll <i>a in vivo</i>	2100-000-C	Flowthrough Cap	2100-600
Blue Green Algae - Phycoerythrin	2100-000-E	Shade Cap	2100-700
Blue Green Algae - Phycocyanin	2100-000-P	2 Foot Analog Cable with Locking Sleeve	2100-750
Fluorescein Dye	2100-000-F	5 Meter Analog Cable with Locking Sleeve	2100-755
Rhodamine Dye	2100-000-R	10 Meter Analog Cable with Locking Sleeve	2100-751
CDOM	2100-000-U	25 Meter Analog Cable with Locking Sleeve	2100-752
Optical Brighteners	2100-000-B	50 Meter Analog Cable with Locking Sleeve	2100-753
Crude Oil	2100-000-O		
Refined Fuels	2100-000-G		

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

Contact Us

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*only available for visible wavelengths

DataBank Handheld Datalogger also available.

For details visit www.turnerdesigns.com.