

CYCLOPS-6K™

Submersible Sensors



Cyclops-6K enables fluorescence detection to ocean depths of 6000 meters. Reinforced Titanium housing and a specialized optical head ensure sensor integrity at extreme pressures. The LED excitation source allows for low power consumption and excellent signal stability enabling long-term deployments. The introduction of the Cyclops-6K gives researchers a new, affordable tool for deep ocean exploration.

Designed for Integration

The Cyclops-6K integrates easily with any third-party platform that supplies power and datalogging. The Cyclops-6K integrates easily with any third-party platform that supplies power and datalogging.

CONTACT US

Web: www.turnerdesigns.com

Email: sales@turnerdesigns.com

Toll-Free: +1.877.316.8049

Phone: +1.408.749.0994

PRODUCT HIGHLIGHTS

- 6,000 meter depth
- Reinforced Titanium housing
- Easily integrates with CTDs, ROVs, AUVs
- Small size
- Low power consumption
- Built-in light scatter rejection
- Affordable price/excellent value
- Explorer enables various lab applications

AVAILABLE PARAMETERS

- Blue Green Algae
 - Phycoerythrin (marine)
 - Phycocyanin (freshwater)
- CDOM/FDOM
- Chlorophyll *in vivo*
- Rhodamine Dye
- Hydrocarbons
 - Crude Oil
 - Refined Fuels
- Turbidity

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OPTICAL SPECIFICATIONS

	Minimum Detection Limit	Linear Range
CDOM/FDOM	0.15 ppb*	0 - 1,500 ppb*
	0.5 ppb**	0 - 3,000 ppb**
Chlorophyll <i>in vivo</i>	0.25 µg/L	0 - 500 µg/L
Oil - Crude	0.2 ppb**	0 - 1,500 ppb**
Oil - Fine	0.4 ppm***	0 - 20 ppm***
Phycocyanin	2 ppb ^{PC}	0 - 4,500 ppb ^{PC}
Phycoerythrin	0.15 ppb ^{PE}	0 - 750 ppb ^{PE}
Rhodamine Dye	0.01 ppb	0 - 500 ppb
Turbidity	0.05 NTU	0 - 500 NTU

* Quinine Sulfate

** PTSA (1,3, 6, 8 - Pyrenetetrasulfonic Acid Tetrasodium Salt)

***BTEX (Benzene, Toluene, Ethylbenzene, Xylenes)

PC Phycocyanin pigment from Prozym diluted in Deionized water

PE Phycoerythrin pigment from Prozym di

POWER REQUIREMENT (mW@12V)

CDOM/FDOM	240
Chlorophyll <i>in vivo</i>	240
Oil - Crude	250
Oil - Fine	530
Phycocyanin	160
Phycoerythrin	270
Rhodamine Dye	270
Turbidity	120

FLUOROMETER PERFORMANCE

Linearity: 0.99R²

PHYSICAL DIMENSIONS

Length x Diameter:

6.6" x 1.75"; 16.76 x 4.45 cm

Weight: 22 oz; 624 grams

ENVIRONMENTAL CHARACTERISTICS

Temperature Range:

Ambient: 0 to 50 deg C

Water Temp: -2 to 50 deg C

Depth Range: 6,000 meters

Signal Output: 0 - 5 VDC

Supply Voltage Range: 3 - 15 VDC

WHO WE ARE

Since 1972 Turner Designs has provided over 75,000 sensitive, reliable and easy-to-use fluorometers for environmental and industrial uses. We specialize in sensitive detection of materials with fluorescence properties. With distributors around the world, we provide free technical support for the life of our instruments.

