

Cyclops Integrator™

Submersible Fluorometer



Cyclops Integrator provides a package optimized for integrating Cyclops sensors into vehicles. One, two, or three optical sensors ranging from deep ultraviolet to infrared can be mounted with the Cyclops Integrator electronics in a very compact footprint. Submersible to 1000m, the Cyclops Integrator is available with or without a watertight housing.

PERFORMANCE

	Minimum Detection Limit	Linear Range
CDOM/FDOM	0.15 ppb** 0.5 ppb***	0-1,500 ppb** 0-3,000 ppb***
Chlorophyll <i>in vivo</i> - Blue Excitation	0.025 µg/L	0-500 µg/L
Chlorophyll <i>in vivo</i> - Red Excitation	0.5 µg/L	0-500 µg/L
Fluorescein Dye	0.01 ppb	0-500 ppb
Oil - Crude	0.2 ppb***	0-1,500 ppb***
Optical Brighteners	0.6 ppb***	0-2,500 ppb***
Phycocyanin (freshwater)	2 ppb ^{PC}	0-4,500 ppb ^{PC}
Phycoerythrin (marine)	0.15 ppb ^{PE}	0-750 ppb ^{PE}
Rhodamine Dye	0.01 ppb	0-1,000 ppb
Turbidity	0.1 NTU	0-500 NTU

** Quinine Sulfate

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

PC Phycocyanin pigment from Prozyme diluted in Deionized water

PE Phycoerythrin pigment from Prozyme diluted in Deionized water

PRODUCT HIGHLIGHTS

- One, Two or Three Optical Sensors
- Low Power Requirements
- Quick Power Up: - 3 Seconds to 1st Data Output
- Simple Data Integration

ELECTRICAL SPECIFICATIONS

Output: RS232

Sample Interval: 1 Second

Minimum Power Supply: 12 - 30V; 3W

Maximum Current w/ 3 sensors: 80 mA

PHYSICAL SPECIFICATIONS

Diameter: <3 in; 7.7 cm

Height: 1.625 in; 4.1 cm

Height w/ Housing: 3.15 in; 8 cm

Temperature: -2 to 50 degrees C.

Depth: 0 to 1000 meters

Material: Anodized Aluminum

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.