



## Optical Specification Guide

### Cyclops Submersible Sensors

P/N	Application	MDL	Linear Range	LED (CWL)	Excitation	Emission	Power Requirement mW @ 12V	Sol. Std.
XXXX-000-U	CDOM/FDOM	0.1 ppb** 0.5 ppb***	0-1,500 ppb** 0-3,000 ppb***	365 nm	325/120 nm	470/60 nm	240	2100-904/905
XXXX-000-C	Chl <i>in vivo</i> (Blue Excitation)	0.03 µg/L	0-500 µg/L	460 nm	465/170 nm	696/44 nm	240	2100-900/908
XXXX-000-D	Chl <i>in vivo</i> (Red Excitation)	0.3 µg/L	>500 µg/L	635 nm	≤ 635 nm	> 695 nm	240	2100-900/908
XXXX-000-F	Fluorescein Dye	0.01 ppb	0-500 ppb	460 nm	400/150 nm	545/28 nm	145	2100-900/908
XXXX-000-O	Oil - Crude	0.2 ppb***	0-1,500 ppb ***	365 nm	325/120 nm	410-600 nm	250	2100-904/905
XXXX-000-G	Oil - Refined Fuels	3 ppb* 10 ppm****	3,500 ppb * 30 ppm****	275 nm	≤ 290 nm	350/55 nm	350	2100-904/905
XXXX-000-B	Optical Brighteners for Wastewater Monitoring	0.6 ppb ***	0-2,500 ppb***	365 nm	325/120 nm	445/15 nm	200	2100-904/905
XXXX-000-P	Phycocyanin (Freshwater Cyanobacteria)	2 ppb <sup>PC</sup>	0-4,500 ppb <sup>PC</sup>	590 nm	590/30 nm	≥ 645 nm	160	2100-900/908
XXXX-000-E	Phycoerythrin (Marine Cyanobacteria)	0.1 ppb <sup>PE</sup>	0-750 ppb <sup>PE</sup>	525 nm	515-547 nm	≥ 590 nm	270	2100-900/908
XXXX-000-A	PTSA	0.1 ppb***	0-650 ppb***	365 nm	325/120 nm	405/10 nm	320	2100-904/905
XXXX-000-R	Rhodamine Dye	0.01 ppb	0-1000 ppb	530 nm	535/60 nm	590-715 nm	175	2100-900/908
XXXX-000-L	Tryptophan for Wastewater Monitoring	3 ppb	5,000 ppb	275 nm	-	350/55 nm	350	2100-904/905
XXXX-000-T	Turbidity	0.05 NTU	0-1,500 NTU	850 nm	850 nm	850 nm	120	N/A

**Stainless Steel Cyclops-7F P/N: 2110**  
**Plastic Cyclops-7F P/N: 2118**  
**Also available in Titanium**

**Stainless Steel Cyclops-7 P/N: 2100**  
**Plastic Cyclops-7 P/N: 2108**  
**Also available in Titanium**

\* 1,5-Naphthalene Disulfonic Disodium Salt

\*\* Quinine Sulfate

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

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

<sup>PC</sup> Phycocyanin pigment from Prozyme diluted in Deionized water

<sup>PE</sup> Phycoerythrin pigment from Prozyme diluted in Deionized water