

# Fluorometer / Turner Designs Cyclops 7

max. depth 600 m.



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The Turner Designs' CYCLOPS-7 Submersible Fluorometer is an accurate single channel detector that can be used for many different applications. It is intended for integration into multi-parameter systems from which it will receive power and deliver a voltage output that is proportional to the concentration of the fluorophore, particle, or compound of interest.

(c) Turner Designs



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Pressure resistance	600 dbar
Temperature range	-2... 50°C
Signal Output	0 - 5 VDC
Supply Voltage Range	3 - 15 VDC
Available Sensors	Blue-Green Algae (Phycoerythrin and Phycocyanin) CDOM / FDOM Chlorophyll A Fluorescent Dye (Rhodamine, Fluorescein, PTSA) Hydrocarbons (Crude Oil, Refined Fuels) Turbidity Wastewater Monitoring (Optical Brighteners, Tryptophan)
Material	Titanium
Used for	CTD48Mc, CTD75, CTD90, CTD90M, CTD115, CTD115M, MSS



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## Highlights

- Small and available in multiple housing/connector configurations
- Built-in light scatter rejection
- Low power consumption
- Easily integrates into any third-party platform
- Interfaces with Data Bank
- Handheld Datalogger
- Submersible Loggers Available
- Cyclops Explorer enables various lab applications

Application	Minimum detection limit	Linear range	Power requirement (mW @ 12V)
CDOM / FDOM	0.1 ppb* 0.5 ppb**	0-1,500 ppb* 0-3,000 ppb**	240
Chlorophyll in vivo			
Blue excitation	0.03 µg/L	0-500 µg/L	240
Red excitation	0.3 µg/L	0-500 µg/L	240
Fluorescein Dye	0.01 ppb	0-500 ppb	145
Oil - Crude	0.2 ppb**	0-1,500 ppb**	250
Oil - Fine	0.4 ppm***	0-20 ppm***	530
Optical Brighteners	0.6 ppb**	0-2,500 ppb**	200
Phycocyanin	2 ppb <sup>PC</sup>	0-4,500 ppb <sup>PC</sup>	160
Phycoerythrin	0.1 ppb <sup>PE</sup>	0-750 ppb <sup>PE</sup>	270
Rhodamine Dye	0.01 ppb	0-1,000 ppb	175
Tryptophan	3 ppb	0-5,000 ppb	540
Turbidity	0.05 NTU	0-1,500 NTU	120
PTSA Dye	0.1 ppb**	0-650 ppb**	320

\* 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



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