

**CDOM (Colored Dissolved Organic Matter) WET CHEMICAL SENSOR TO BE INTEGRATED WITH EXISTING SATLANTIC /SEABIRD SCIENTIFIC WET CHLOROPHYLL FLUORESCENCE AND BACK SCATTERING SENSORS**

The measuring parameters: CDOM (Colored Dissolved Organic Matter)

The sensor should determine CDOM through measuring fluorescence.

The Instrument should have good accuracy and stability in extreme turbid and high CDOM environmental condition.

The Sensor should have optional anti-befouling protection.

Option for simultaneous depth measurement.

Option for analog and digital outputs from the sensor.

Option for internal battery and internal memory should be available.

No in-field calibrations required, common continuous deployment duration of three plus month, reducing field costs.

**Sensor Specification**

<b>Parameter</b>	<b>Measurement Range</b>	<b>Sensitive</b>	<b>Depth Rating</b>	<b>Sampling Rate</b>
CDOM	0-500 ppb	0.093 ppb	600 m	Up to 8 Hz
<b>Optical Specification:</b>				
<b>Parameter</b>	<b>Wavelength EX/EM</b>	<b>Linearity</b>		
CDOM	370/460 nm	99% R <sup>2</sup>		0.005 µg/L
<b>Communication</b>	RS232 output or Analog output			
<b>Housing</b>	Acetyl copolymer			
<b>Data output resolution</b>	14 bit			
<b>Internal Data Logging</b>	Optional			
<b>Power Input</b>	7-15 VDC			
<b>Weight</b>	0.433 kg			
<b>Warranty</b>	Warranty minimum 1 year			