

ARES CHLOROPHYLL-A SENSOR

XEOS OPTICAL WATER QUALITY SENSORS

The Ares Chlorophyll-A Sensor features state-of-the-art technology for measuring chlorophyll concentrations for environmental water quality monitoring, oceanographic research, marine operations and aquaculture monitoring. The Ares is based on the optical measurement principle, using ultra bright energy-efficient blue LEDs as an excitation source and detectors with filtering to measure the red light produced via fluorescence by chlorophyll-a contained in algal cells. These digital optical sensors are programmed with a calibrated response to a fluorescence standard.

Key Features

- Ultra bright energy-efficient blue LEDs
- Fiber optics to improve efficiency and size
- Individually calibrated with laboratory standards
- Gain switching to maximize resolution
- Digital and analog output
- Anti-biofouling faceplate

The Ares is backed by a fully comprehensive warranty and committed support. To arrange a demonstration or to learn more about our products, please contact us at the numbers below.



Xeos *Technologies Inc*
Data Telemetry Specialists

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ARES

APPLICATIONS:

Environmental water quality
Oceanography & limnology
Aquaculture operations
Autonomous vehicle surveys
Offshore renewable energy projects

ARES CHLOROPHYLL-A SENSOR

TECHNICAL SPECIFICATIONS*

ARES	
General	
<i>Resolution</i>	0.1 µg/L (0-250 range)
<i>Range</i>	Analog: Either 0-25 or 0-250 Digital: Both 0-25 and 0-250
<i>Operating Temperature</i>	0° C to + 40° C
<i>Depth Rating</i>	500 m
Optical	
<i>Peak Excitation Wavelength</i>	460 nm
<i>Excitation Bandwidth</i>	18 nm
<i>Detection Wavelength Range</i>	665-1000 nm
Electrical	
<i>Supply Voltage Range</i>	+ 6-18 VDC
<i>Power Supply</i>	External power required
<i>Current Draw @12 V (analog sensor)</i>	18 mA
<i>Current Draw @12 V (digital & analog sensor)</i>	20 mA
<i>Analog Voltage Out (nominal)</i>	0-5V
<i>Baud Rate</i>	9600-115200 (38400 default)
<i>Serial Configuration</i>	8 bits, no parity, 1 stop bit, no flow control
Mechanical	
<i>Material</i>	Acetal Plastic With Copper-Nickel Faceplate
<i>Length (excluding connector)</i>	10.60 cm (4.17 in.)
<i>Diameter</i>	3.2 cm (1.25 in.)
<i>Weight</i>	135 g

*Specifications subject to change without notice

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