

ARES TURBIDITY SENSOR

XEOS OPTICAL WATER QUALITY SENSORS

The Ares Turbidity Sensor features state of the art technology for measuring water clarity 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 infrared LEDs as an excitation source and detectors to measure infrared light reflected by suspended particulate material in a water volume. These digital optical sensors are programmed with a calibrated response to reflected light that can be converted to quantitative measurements of turbidity (measured in Nephelometric Turbidity Units or NTUs).

Key Features

- Ultra bright energy-efficient infrared 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:

Autonomous vehicle integration
Aquaculture site assessment monitoring
Environmental water quality monitoring
Oceanographic & limnological research
Marine construction & dredging
Offshore renewable energy projects

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TECHNICAL SPECIFICATIONS*

ARES	
General	
<i>Resolution</i>	0.1 NTU (0-1500 range)
<i>Range</i>	Analog: Either 0-150 or 0-1500 NTU Digital: Both 0-150 and 0-1500 NTU
<i>Operating Temperature</i>	0° C to + 40° C
<i>Depth Rating</i>	500 m
Optical	
<i>Wavelength</i>	850 nm
<i>Optical Bandwidth</i>	30 nm
<i>Scattering Angle</i>	90 degrees
Electrical	
<i>Supply Voltage Range</i>	+ 6-18 VDC
<i>Power Supply</i>	External power required
<i>Current Draw @12 V (analog sensor)</i>	10 mA
<i>Current Draw @12 V (digital & analog sensor)</i>	12 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>	10.50 cm (4.13 in.)
<i>Diameter</i>	3.175 cm (1.25 in.)
<i>Weight</i>	148 g

*Specifications subject to change without notice

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