

# 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.



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### APPLICATIONS:

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

ARES

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## TECHNICAL SPECIFICATIONS\*

ARES	
General	
Resolution	0.1 NTU
Range	Analog: Either 0-150 or 0-1500 NTU Digital: Both 0-150 and 0-1500 NTU
Operating Temperature	0° C to + 40° C
Depth Rating	500 m
Optical	
Wavelength	850 nm
Optical Bandwidth	30 nm
Scattering Angle	90 degrees
Electrical	
Supply Voltage Range	+ 6-18 VDC
Power Supply	External power required
Current Draw @12 V	12 mA
Analog Voltage Out (nominal)	0-5 V
Baud Rate	9600-115200 (38400 default)
Serial Configuration	8 bits, no parity, 1 stop bit, no flow control
Mechanical	
Material	Acetal Plastic With Copper-Nickel Faceplate
Length (excluding connector)	10.50 cm (4.13 in.)
Diameter	3.175 cm (1.25 in.)
Weight	148 g

\*Specifications subject to change without notice

