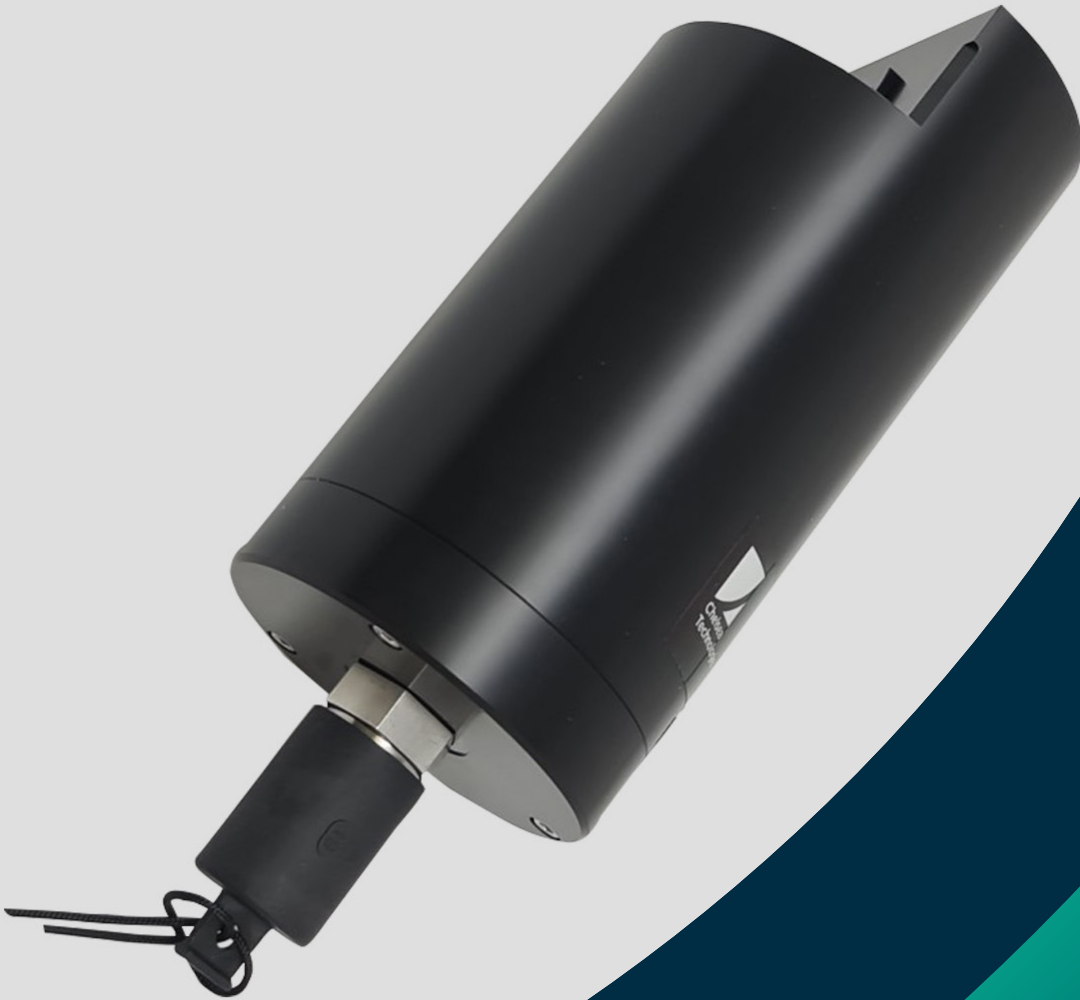


UviLux Turbidity

Miniature IR Turbidity Sensor

Low cost, high sensitivity turbidity sensor for repeatable measurements.



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Miniature IR turbidity sensor

UviLux Turbidity is a lightweight, digital IR sensor providing accurate and repeatable measurements of turbidity.

Designed for compliance with ISO 7027:1999 standards, UviLux Turbidity offers significantly increased functionality when compared to other turbidity sensors.

UviLux Turbidity can be deployed into a wide range of applications including flow-through systems for process monitoring and in-situ monitoring in rivers, lakes and oceans. Its PVC housing is suitable for deploying independently as well as from moored or profiling systems, and submersible vehicles.

Features

- Designed for compliance with ISO7027:1999
- High sensitivity
- Low power consumption/noise
- User adjustable dynamic range
- RS232 & analogue output (RS422 option)
- High rejection of ambient light

Applications

- Turbidity, particle studies/gravimetric analysis
- Reservoir monitoring
- Process control
- Coastal pollution monitoring
- Environmental impact monitoring
- Biogeochemical oceanography
- Wash water monitoring in exhaust gas scrubbers

Variations

- Models available for underwater deployments and cabinet integration



Specifications

Performance

Excitation wavelength	860 nm
Detection wavelength	860 nm
Calibrated range	0 to 1000 FNU
Limit of detection	<0.5 FNU
Optical geometry	90°
Excitation beam divergence	~1°
Compliance	ISO7027:1999

Mechanical

Size	70mm dia x 149mm
Weight in air	0.8 kg
Weight in water	0.15 kg
Pressure housing	PVC
Depth rating	600 m
Input voltage	9 to 36 Vdc

Mechanical

Input voltage	Digital RS232 and analogue 0 to 5 Vdc (RS422, SDI-12 and 4– 20 mA options available)
Power requirements	<1 Watt @ 12 Volt

*In view of our continual improvements, the designs and specifications of our products may vary from those described.



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