

OBS-3[®]

Sediment Instruments for all Environments

FEATURES

- Measures turbidity and suspended solids
- Compact probe
- Low-power consumption
- Voltage clamp and 4-20 mA current loop options

APPLICATIONS

- River and stream gaging
- Add-on sensor for CTDs, data loggers, and current meters
- Wastewater and effluent measurements
- Monitor dredging and mining operations
- Permit compliance
- Control instrumentation for settling ponds
- Sediment transport research
- Laboratory measurements

DESCRIPTION

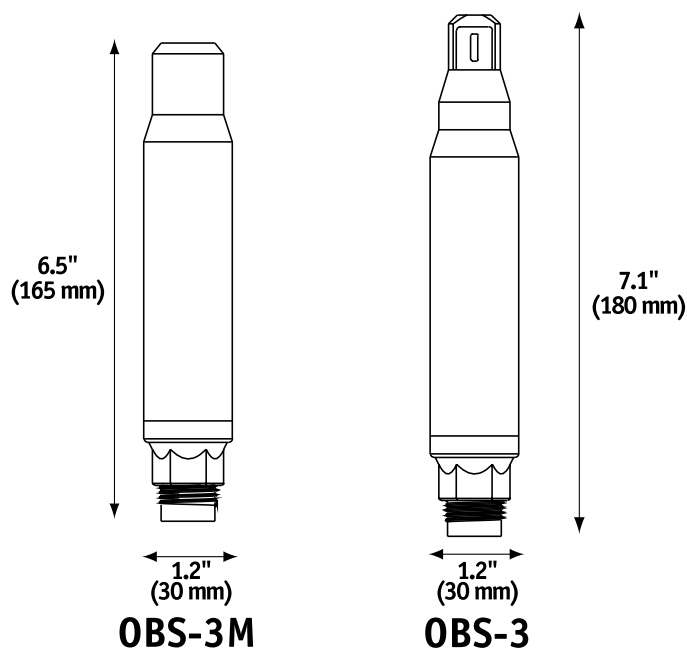
The OBS-3 sensor measures suspended solids and turbidity with a patented (U.S. Patent No. 4,841,157) backscatter method. It features: nearly linear response to particle concentrations spanning more than three orders of magnitude; an infrared measurement system; and an optical filter with synchronous detection to reject ambient light.

Field-proven monitor of suspended solids and turbidity.



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RANGES

Turbidity		0 to 4000 NTU
Concentration ¹	Mud	0 to 5000 mg/l
	Sand	0 to 50 g/l

¹ Ranges depend on sediment type.

ACCURACY

Turbidity	0-100	+/- 0.1 NTU
	100 - 500	+/- 1 NTU
	500 - 4000 ²	+/- 5 NTU
Concentration ²	Mud	+/- 0.1 mg/l
	Sand	+/- 0.1 g/l

² With 2nd-order polynomial equation.

OTHER DATA

Maximum data rate	10 Hz
Infrared wavelength	875 nm
Maximum depth	500 m
Drift	< 5% / year
Power	9 - 16Vd.c. / 14 mA
Housing Material	Delrin [®]

ORDERING INFORMATION

- Consult the manufacturer about your application.
- Specify cable length.
- Choose voltage-clamp or current-loop options.

PAYMENT AND SHIPPING TERMS

VISA and Master Cards accepted. COD, prepay, or LC without credit approval; Net 30 Days otherwise. F.O.B. Port Townsend, Washington, USA

Represented by:



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