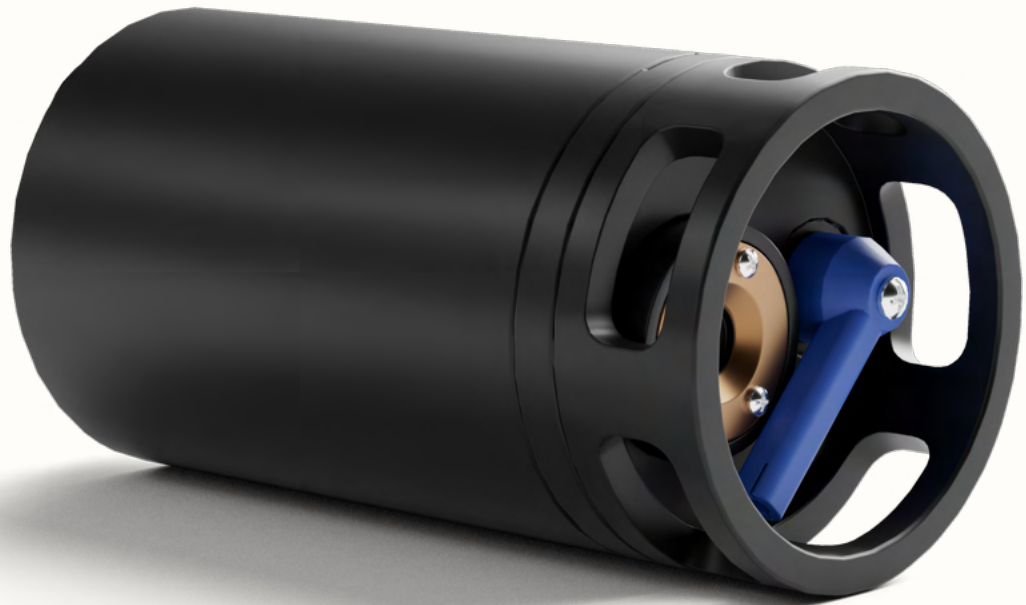


Dissolved Oxygen Sensor



Add a compact, long-dwell dissolved oxygen sensor to your Spotter Platform to monitor dissolved oxygen concentration and saturation in real time.

An integrated anti-fouling wiper and ultra-low power solar-rechargeable battery enables extended deployments and continuous access to water quality insights.

FEATURED IN

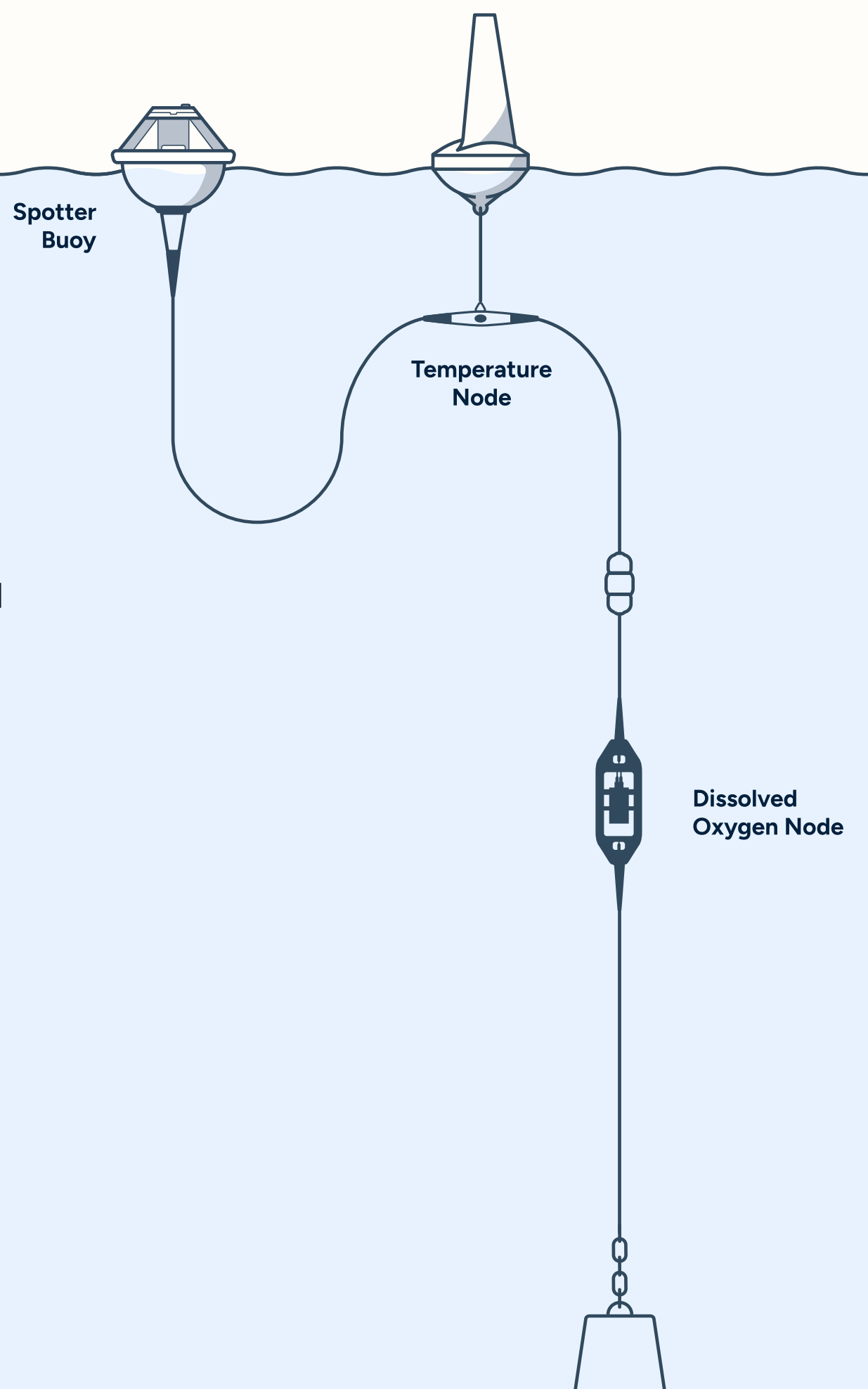
Spotter Water Quality

A turnkey solution for real-time dissolved oxygen and temperature monitoring.

HIGH IMPACT USE CASES

- Marine Research & Ecosystem Monitoring
- Aquaculture Management
- Dredging Impact Tracking

[Learn More →](#)



Core Specifications

Sensor	PME MicroDot Plus (DO + Temperature)
Sensor Type	Optical
Dissolved Oxygen	Accuracy: ±5% or ±0.3 mg/L
	Resolution: 0.001 mg/L (1 µg/L)
	Range: 0 - 150% saturation
Temperature	Accuracy: ±0.1°C
	Resolution: 0.001°C
	Range: 0°C - 35°C
Oxygen Response Time	~30s to 90% step change
Sampling Rates	5 s to 24 hr interval, user-set
Calibration Method	96-point factory calibration
Maximum Depth	50 m
Power Supply	Spotter's Li-ion battery (solar-rechargeable)
Size (Dia. x Len.)	~76 mm × 203 mm
Weight	.34 kg (< 0.75 lb)
Interface Standard	Bristlemouth-native (plug-and-play)

When combined with salinity data, this sensor enhances measurement accuracy by providing salinity-compensated O₂ concentration (µmol/L) and O₂ saturation (%) readings.

Anti-Fouling Wiper

This submersible, self-contained device uses a rotating brush to sweep the sensor surface, reducing organism growth and preventing biofouling. After each pass, the brush retracts to avoid interference, ensuring accurate, continuous monitoring.

Deployment & Best Practices

Configuration Options

Ideal for moored coastal deployments with one Spotter or a network. Integrate up to two more devices (e.g. current/salinity) per Smart Mooring (max 3 total)

Mounting

Mount sensor horizontally; avoid sediment or bubble interference

Remote Configuration & Controls

Direct control via Spotter Dashboard, binary/ASCII commands, and Sofar remote support

Maintenance

Rinse sensor with fresh water after retrieval. Clean sensing foil periodically; verify calibration annually

Data Access & Analysis

Spotter Dashboard

View real-time data and insights

API Access

Retrieve data programmatically with our secure API

Onboard Storage

Download data via SD card for offline analysis

Transmission

Satellite and cellular options

