

U26-001

## HOBOb Dissolved Oxygen Data Logger

An affordable, precise data logger that measures oxygen concentrations in lakes, streams, rivers, estuaries, and coastal waters.

### Important Information

Requires HOBObware Pro software and either a U-DTW-1 Waterproof Shuttle or the Base-U-4 Optic USB Base Station for configuration and data offload. Please see compatible items below.

## Supported Measurements

Dissolved Oxygen, Water Temperature

## Features

- Affordable, high performance dissolved oxygen (DO) monitoring with 0.2 mg/L accuracy
- Optical DO sensor technology for long-lasting calibration with less maintenance
- HOBObware Pro's Dissolved Oxygen Assistant software corrects for measurement drift from fouling; provides salinity-adjusted DO concentrations and percent saturation
- Optical USB interface for high-speed, reliable data offload
- User-replaceable DO sensor cap eliminates need to send logger back to the factory to replace membrane

**?NOTE:** For DO measurements in saltwater, an adjustment for salinity is required. For waters with small changes in salinity (<2 ppt), a salinity meter reading typically provides enough accuracy. For environments with greater salinity changes, we generally recommend the HOBOb U24-002-C Conductivity logger. If you need DO in Percent Saturation, barometric pressure data is required, which can be logged with a HOBOb U20-001-04 Water Level logger.

## What's in the box

- HOBOb U26-001 Dissolved Oxygen Data Logger
- Dissolved oxygen sensor cap
- Protective guard
- Calibration boot and sponge

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email [sales@onsetcomp.com](mailto:sales@onsetcomp.com)
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

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Technical Support (8am to 5pm ET, Monday through Friday)

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- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

# HOBO Dissolved Oxygen Data Logger (U26-001) Specifications

## Dissolved Oxygen

Sensor Type	Optical
Measurement Range	0 to 30 mg/L
Calibrated Range	0 to 20 mg/L; 0 to 35°C (32 to 95°F)
Accuracy	± 0.2 mg/L up to 8 mg/L; ± 0.5 mg/L from 8 to 20 mg/L
Resolution	0.02 mg/L
Response Time	To 90% in less than 2 minutes
DO Sensor Cap Life	6 months, cap expires 7 months after initialization

## Temperature

Temperature Measurement/Operating Range	-5 to 40°C (23 to 104°F); non-Freezing
Temperature Accuracy	0.2°C (0.36°F)
Temperature Resolution	0.02°C (0.04°F)
Response Time	To 90% in less than 30 minutes

## Logger

Memory	21,700 sets of DO and temperature measurements (64 KB total memory)
Logging Rate	1 minute to 18 hours
Time Accuracy	±1 minute per month at 0 to 50°C (32 to 122°F)
Battery	3.6 V lithium battery; factory replaceable
Battery Life	3 years (at 5 minute logging)
Download Type	Optical
Depth Rating	100 m (328 ft)
Buoyancy	Salt water: 13 g (0.46 oz) negative   Fresh water: 20 g (0.71 oz) negative
Wetted Materials	Black Delrin®, PVC, EPDM o-rings, silicone bronze screws; rated for saltwater use
Size	39.6 mm diameter x 266.7 mm length (1.56 x 10.5 inches)
Weight	272.4 g (9.61 oz)
Environmental Rating	IP68

