

# QUICK START GUIDE

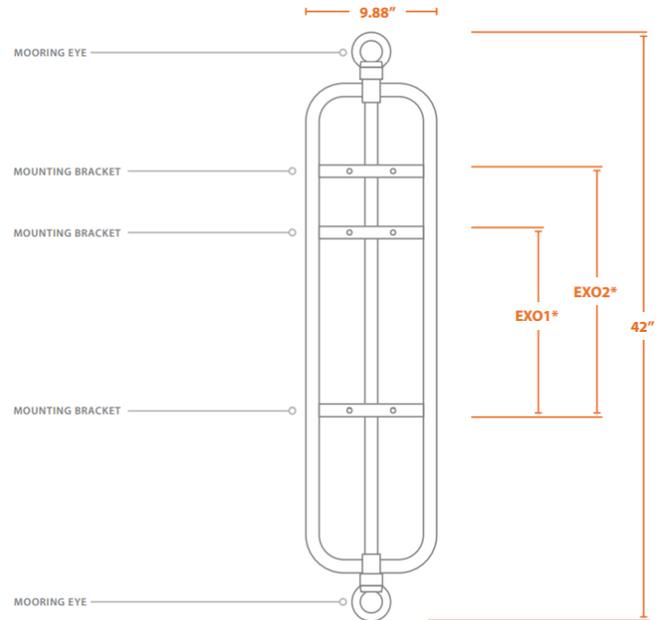
## EXO1/EXO2 SONDE MOORING CAGE



**Figure 1:** EXO1/EXO2 Mooring Cage

attach to the cage and mitigate corrosion during long-term deployments.

<b>Dimensions</b>	42" (106.68cm) overall length
<b>Weight</b>	16 lbs.
<b>Material</b>	316 SS frame, 316 SS eyenuts, PVC clamps
<b>Mooring Attachments</b>	(2) 3/4" eyenuts



### Overview

The NexSens EXO Sonde Mooring Cage provides a secure and convenient means of deploying a YSI EXO multi-parameter water quality sonde. The cage features stainless steel construction with top and bottom eyenuts. The eyenut connection allows the cage to be deployed in-line on an open water buoy mooring or mounted horizontally on a riverbed. Two PVC mooring clamps with quick release pins accommodate the YSI EXO1 or EXO2 sonde. The clamps are positioned per YSI specification so as not to deform the instrument.

An optional mounting crossarm is available for adding photosynthetically active radiation (PAR) sensors. The crossarm allows for both upwelling and downwelling sensors with optional anti-fouling wipers. For saltwater applications, sacrificial zinc shaft anodes are available to

### What's included

- (1) EXO Cage with pre-installed mooring clamps and eyenuts
- (2) Locking pins
- (2) Sonde-diameter O-rings

### Common accessories

- Mounting crossarm for underwater PAR sensors
- X2 zinc shaft anode, 7/8" shaft

### Assembly

The main components of the NexSens EXO Sonde Mooring Cage are assembled at the time of shipment. Instructions for installing the remaining accessories are listed as follows:



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## EX01/EX02 SONDE MOORING CAGE

### Sonde O-rings

Install the o-rings as shown in Figures 2-1 or 2-2. Location is important so that clamping is performed per YSI specifications.



Figure 2-1: EXO2 with o-rings



Figure 2-2: EXO1 with o-rings

### Sonde-Indexing Key Alignment (EX02 Only)

For EXO2 applications, an indexing key is located on the top clamp. Be sure to align the sonde recess with the key as shown in Figure 3

Once the indexing key is securely mated with the recess on the top of the sonde, close the upper and lower clamps ensuring that each O-ring rests properly in the clamp groove.

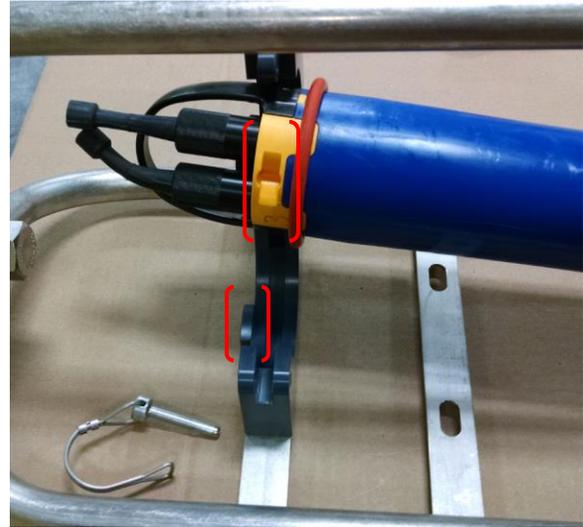


Figure 3: Aligning the sonde recess with the EXO2 indexing key on the top clamp.

### Securing the Sonde

Secure each clamp with the locking pins as shown in Figure 4.

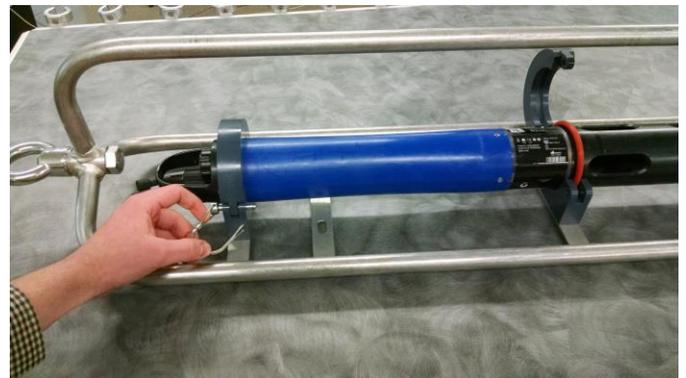
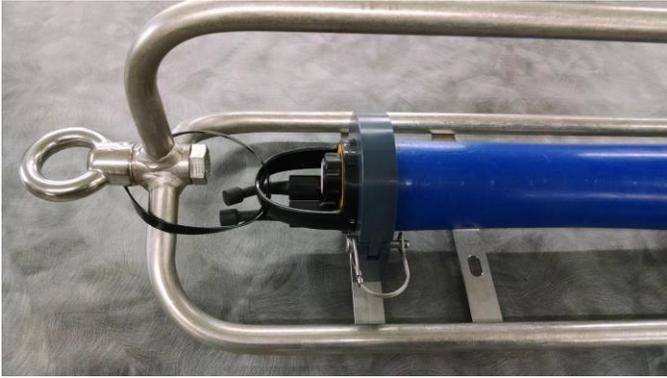


Figure 4: Insert locking pins to close clamps

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## EXO1/EXO2 SONDE MOORING CAGE

A backup tether from sonde to cage **should always be used** to prevent loss of the YSI sonde in the event of an incidental clamp release. Example shown in Figure 5.



**Figure 5:** Backup tether

### ***Saltwater Deployment***

A sacrificial zinc anode should be attached to the EXO mooring cage whenever it is deployed in a brackish or saltwater environment to corrosion. This anode must be inspected and replaced as needed.