

# THERMISTOR STRING MOORING CLAMP KIT

## INSTALLATION INSTRUCTIONS



Figure 1: NexSens Thermistor String Mooring Clamp Kit.

### Overview

The NexSens Thermistor String Mooring Clamp Kit is designed to securely attach a string of NexSens TS210 or T-Node FR temperature sensors along a mooring line in buoy-based applications.

### What's Included

TS-Clamp Kit

- (1) Pack of (2) TS-clamps
- (1) EPDM 201 O-ring
- (1) EPDM 202 O-ring
- (1) 1/4-20 x 1/2" Socket head cap screw
- (1) Quick Start Guide

**Note:** Ensure to have the mooring line shackled to an immobile object to allow the string to be pulled taut while attaching the temperature string. By pulling the mooring line taut during the thermistor attachment, slack can be built into the thermistor string to avoid any stress. During deployment, any stress from motion must be on the mooring line and not the TS210 or T-Node FR string to prevent harming the sensors.

### TS-Clamp installation on Temperature String

- 1 Remove the socket head cap screw using a 3/16" allen wrench.
  - a. Two distinctly sized O-rings, cut in the middle, should be available within each groove of the clamp.

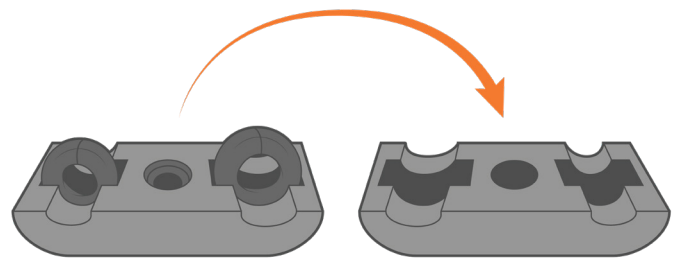


Figure 2: Open the TS-clamp.

- 2 Place the larger O-ring onto the temperature string and the smaller O-ring on the mooring line.
  - a. Offset the O-rings to allow for slack in the temperature string. Provide slack in the string until the O-rings are aligned.
  - b. Ensure to pull the mooring line taut and place both lines into the bottom clamp within their respective grooves.

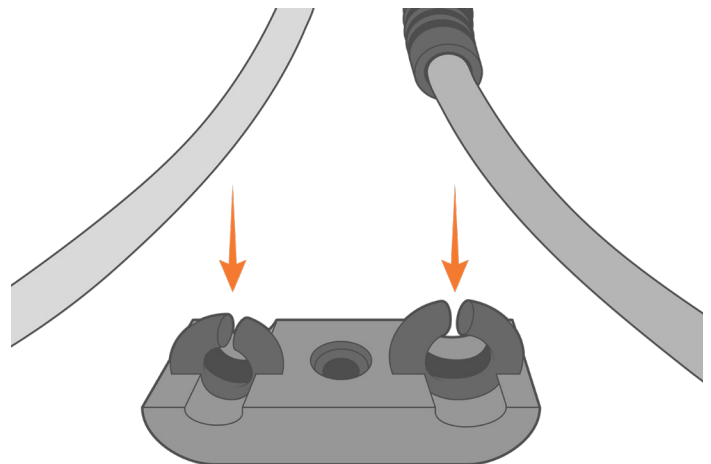
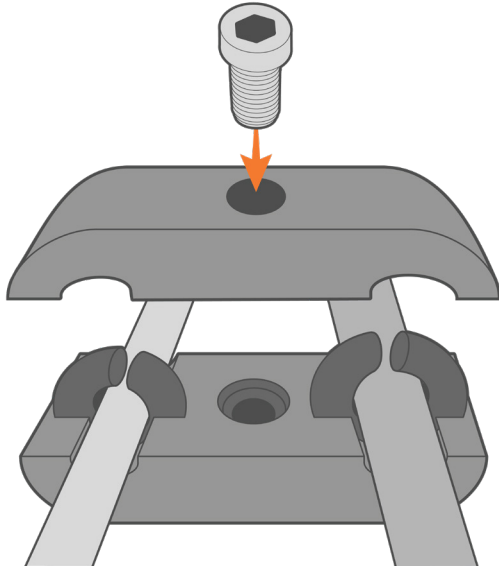


Figure 3: Attach the O-rings to the cables.

- 3 Enclose the line and string with the top half of the clamp.
  - a. Ensure to align the proper groove size with the respective O-rings.
  - b. Tighten the screw down fully. The top clamp should be flush with the bottom clamp when fully tightened.



**Figure 4:** Align the top clamp and insert the screw.

- 4 Place a TS-clamp above and below each node on the temperature string.
  - a. Ensure to provide plenty of slack between nodes.
- 5 Once the string is completely assembled, ensure to pull tightly on the mooring line to confirm there is adequate slack on the temperature string.
  - a. Adjust the string as necessary by slightly loosening the screw and adjusting the temperature string while keeping the mooring line taut.