## Introduction

The Replacement Drop-in Membrane P/N: 2410-509 is designed as a simple user replaceable membrane that allows customer to service their C-Sense Sensor P/N 2410-XXX.

Features

- Field replaceable
- Easy installation

Replacing The Membrane

1) Dry the sensor and place it horizontally on a clean surface.

2) Using a 3/32" Hex screwdriver, remove the six screws from the face of the sensor:
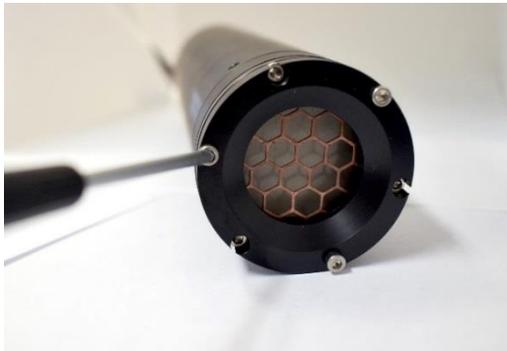
CAUTION: Be careful not to damage the membrane, the hex driver can easily puncture the membrane if it slips. It is recommended to alternate sides when removing the screws to release the faceplate evenly.

3) Place the faceplate on a clean flat surface with the inside facing upwards to prevent scratching of the O-rings and O-ring grooves.
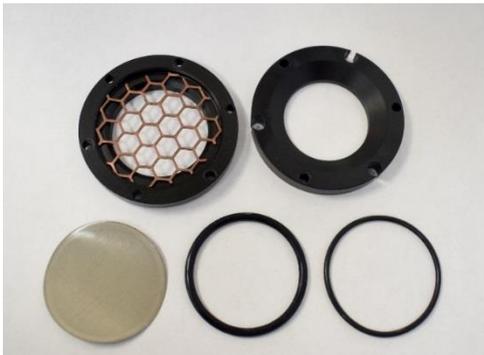
5) Remove the damaged membrane and inspect the membrane support for any indication of water.

6) Inspect the two faceplate O-rings and replace if necessary. Very lightly grease each O-ring. Dow Corning Molykote 111 is recommended.

7) Holding the sensor housing vertically, place a new membrane into the sensor head. **Ensure the shiny side is facing out.**
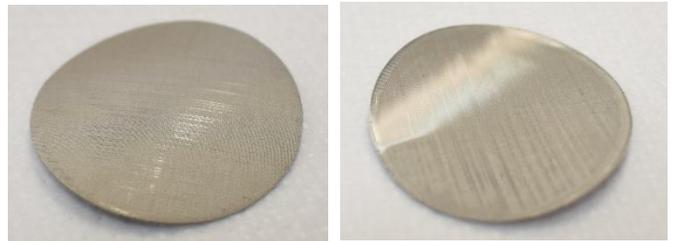
Back   **Front**

Note: Use an uncoated rubber glove or Kim-Wipe to place the membrane so that no oil residue or dirt ends up on the membrane.

8) Place the thicker O-ring on top of the membrane, followed by the middle faceplate, the antifouling shield, the thinner O-ring and the final face plate.

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9)   Re-install the six screws securing the faceplate of the sensor. It is recommended to install all six screws and tighten until the O-ring begins to compress. It should not be difficult to tighten the screws. If excess resistance is felt, ensure the membrane and O-rings are in the correct position. **Hand-tighten screws only, do not over-tighten**. Then alternate sides and tighten each screw with a quarter turn each to install the faceplate evenly.

10) After installation, test the sensor in freshwater for several hours while monitoring the sensor signal. This is to ensure that the membrane is installed properly and no leakage into the detector is occurring. If the sensor output becomes erratic or begins to output zero or negative values, immediately remove the sensor from water and refer to the *Troubleshooting Section* of the user manual.

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