

# CMS5000 Monitoring System

## Concentrator Installation Instructions

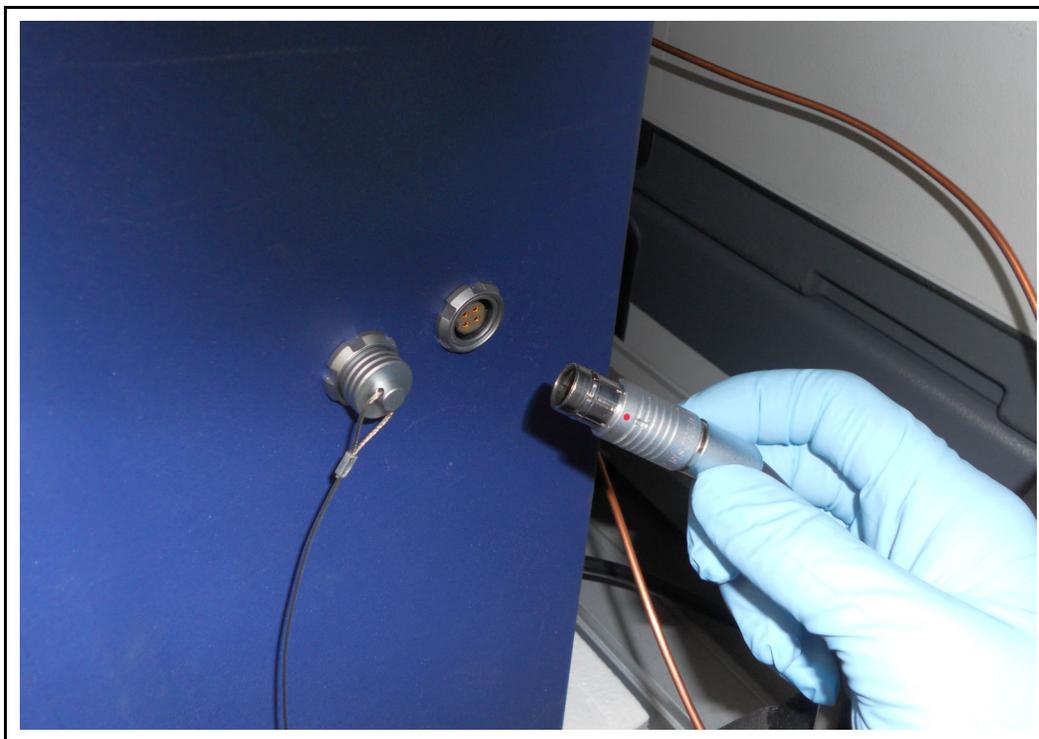


### CAUTION

**The CMS5000 concentrator is not interchangeable with the concentrators from the HAPSITE® family of products.**

- 1 Disconnect the power by unplugging the Fischer Connector® from the right side of the CMS5000. See [Figure 1](#).

*Figure 1*



**NOTE:** Nitrile or equivalent gloves are recommended when replacing the concentrator.

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- 2 Open the front panel by unlocking (if necessary) and rotating the latch clockwise. See [Figure 2](#).

*Figure 2*



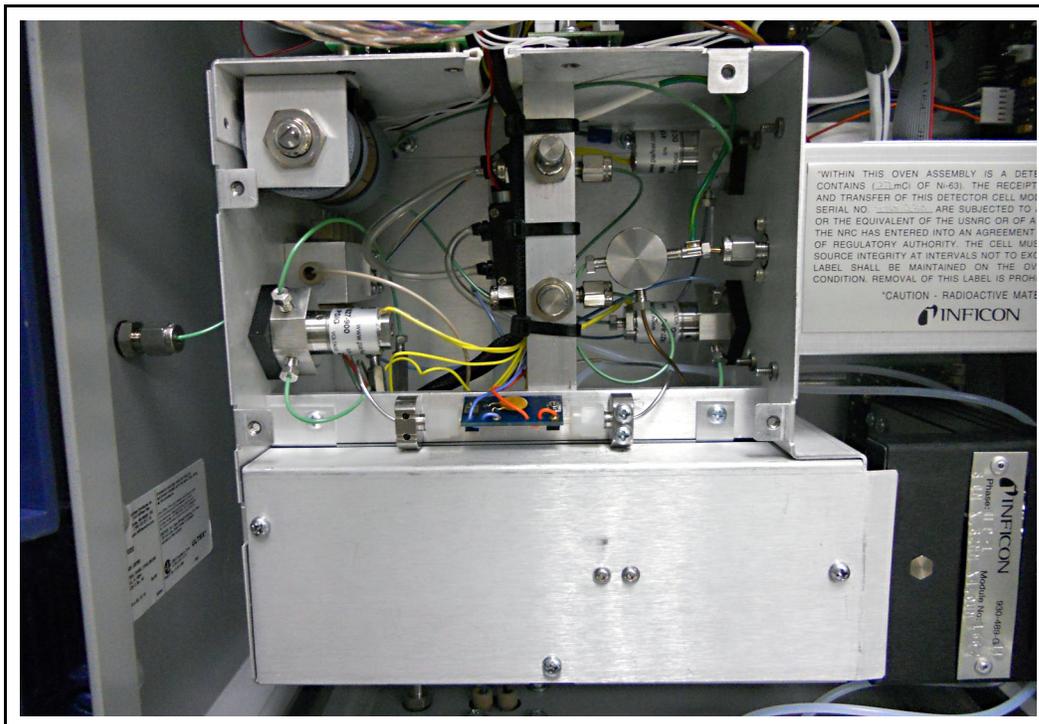


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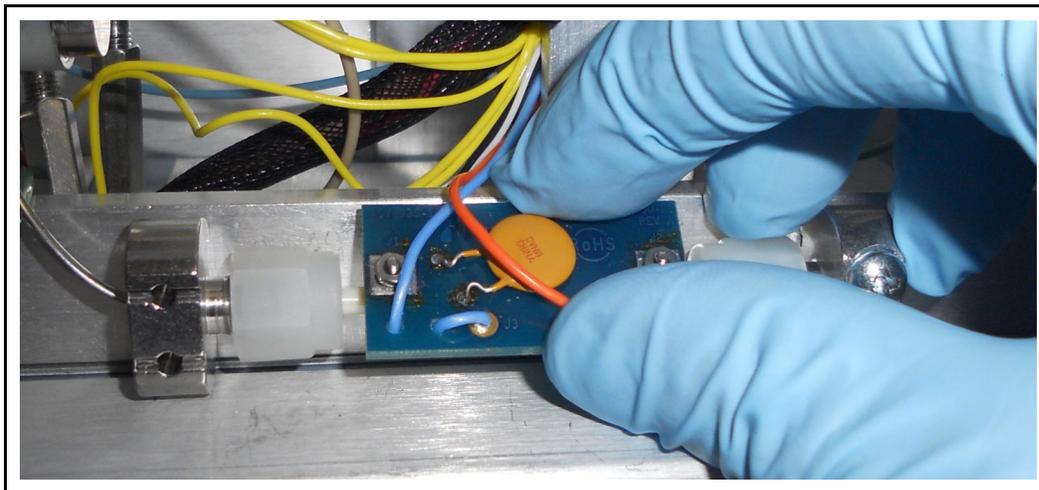
- 4** Remove the metal cover. See [Figure 4](#).

Figure 4



- 5** Hold the sides of the concentrator board as shown. Gently remove the concentrator board by pulling outwards. See [Figure 5](#).

Figure 5



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- Using a 7/16" wrench, loosen the nuts on each side of the concentrator by 1/4 of a turn. Loosen the nut on the right side upwards and the nut on the left side downwards. See [Figure 6](#). Using fingers, fully loosen both ends of the concentrator. See [Figure 7](#).

Figure 6

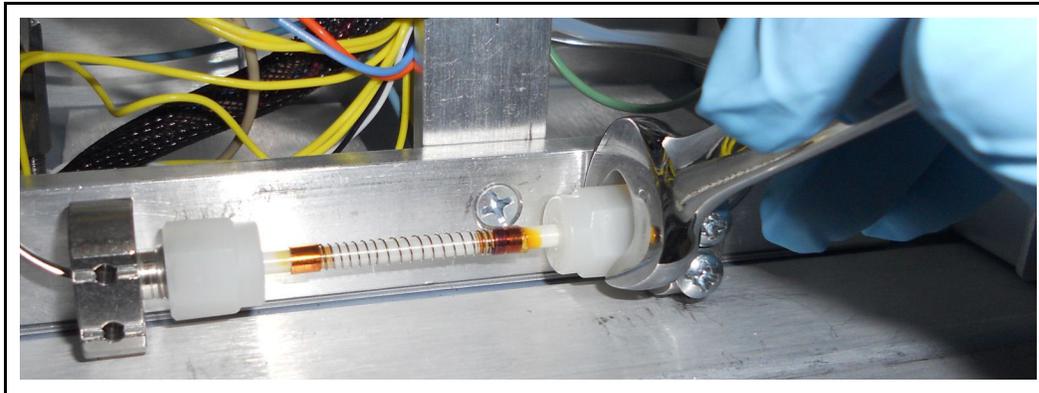
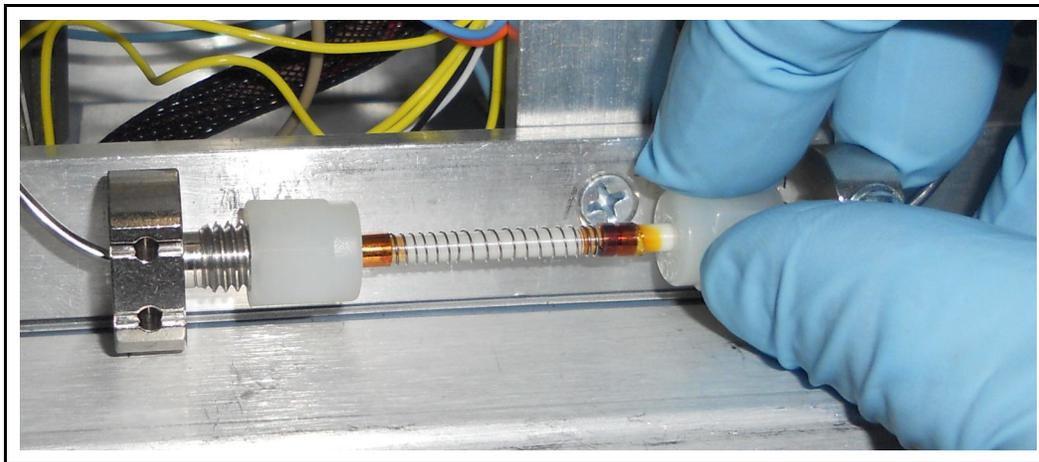


Figure 7

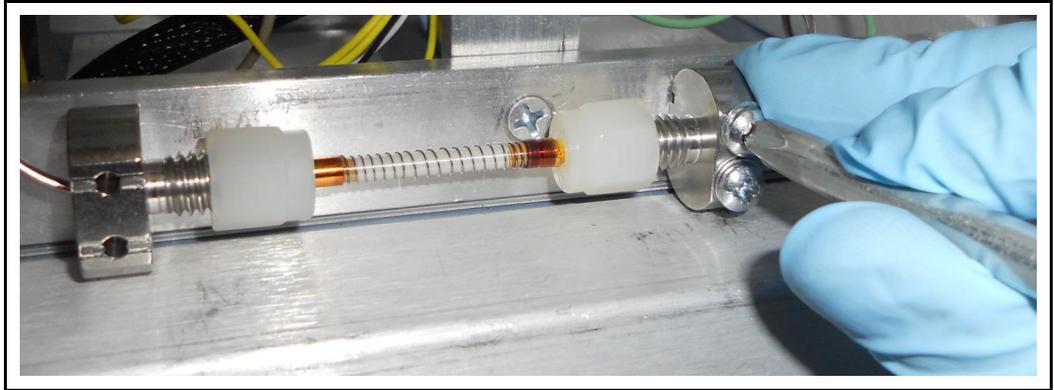


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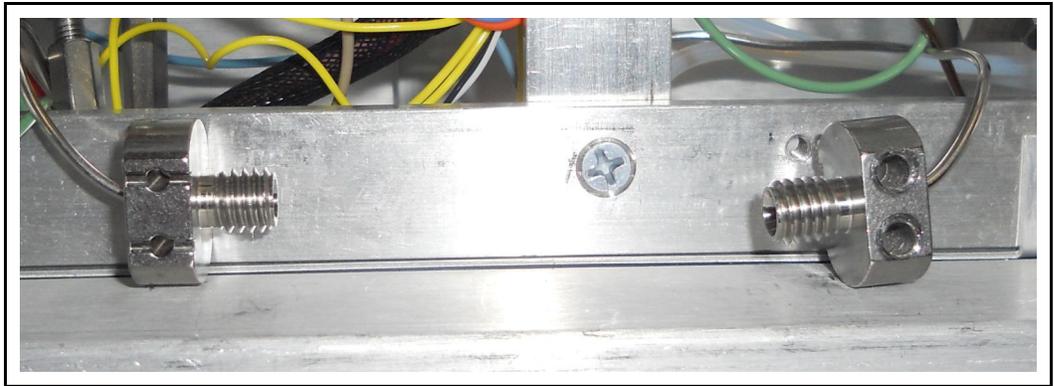
- 7 Using a finger, stabilize the concentrator elbow on the right side. Using a screwdriver, unscrew and remove the two screws that hold the elbow in place. Retain the screws for use when reinstalling. See [Figure 8](#).

Figure 8



- 8 Gently remove the concentrator from the concentrator elbows. See [Figure 9](#).

Figure 9



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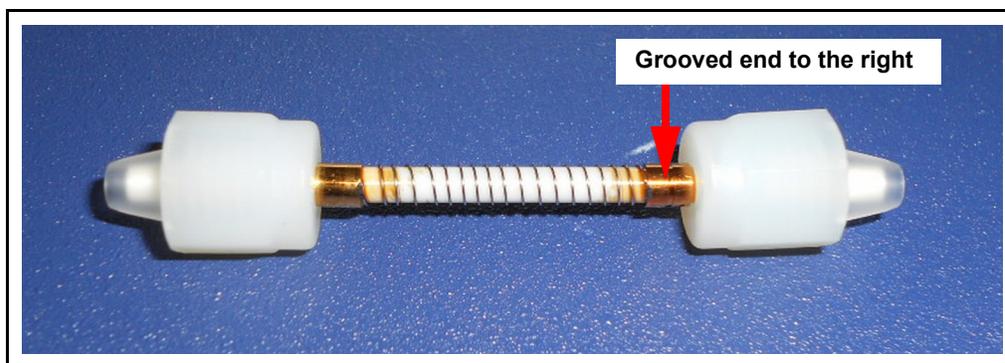
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### CAUTION

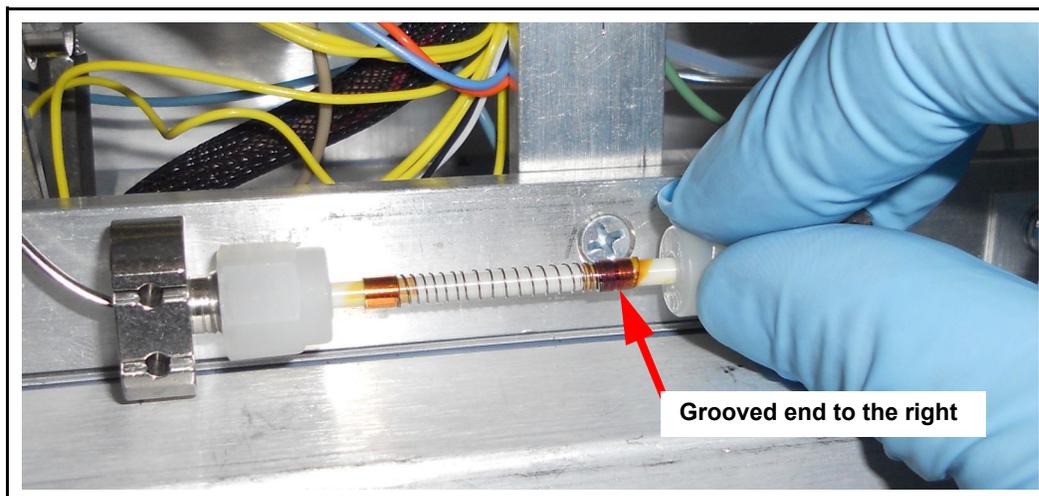
The concentrator is directional. The end with the groove in the metal band must face toward the right when installed. There are two small ferrules that are seated within the nuts. The tapered end of the ferrules must face outward. See [Figure 10](#).

Figure 10



- 9 First, ensure the concentrator ferrules are properly oriented. Place the ungrooved end of the concentrator in the left concentrator elbow. Then, place the grooved end of the concentrator into the right concentrator elbow. Gently push the right elbow toward the left to seat the concentrator. While maintaining pressure on the right elbow, tighten both the left and right nuts until just finger tight. See [Figure 11](#).

Figure 11

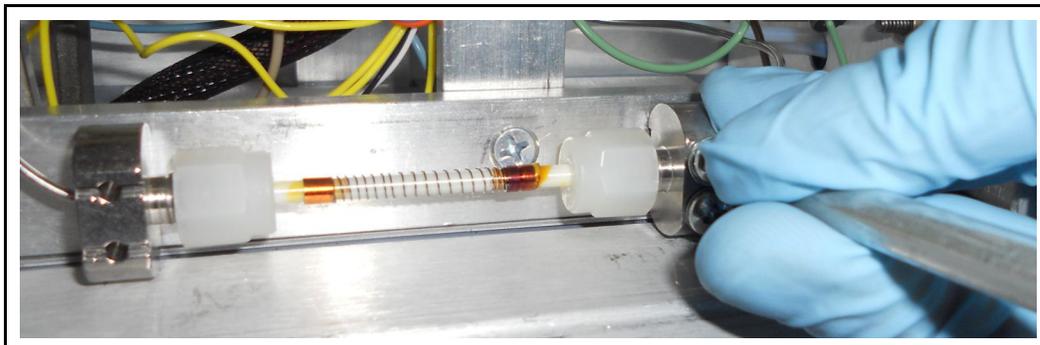


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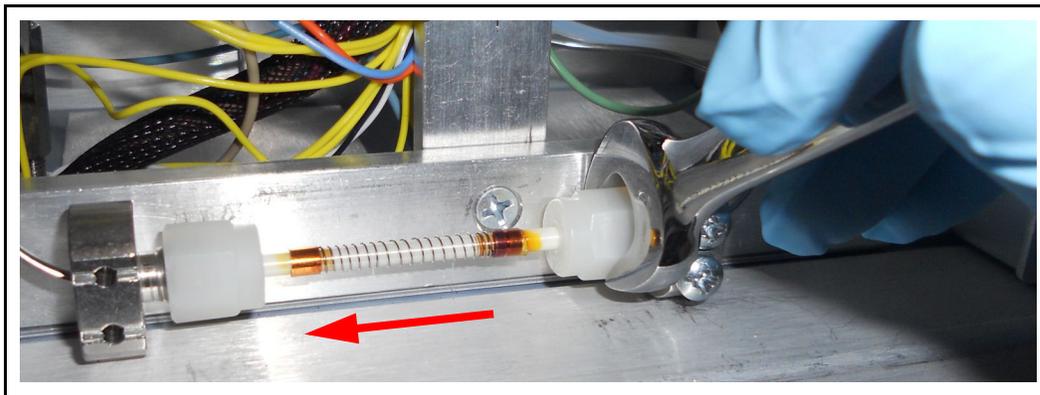
- 10** Insert the screws into the concentrator elbow. Stabilize the right elbow with a finger and evenly tighten the screws until snug. Do not overtighten. Overtightening will cause the elbow to turn. See [Figure 12](#).

*Figure 12*



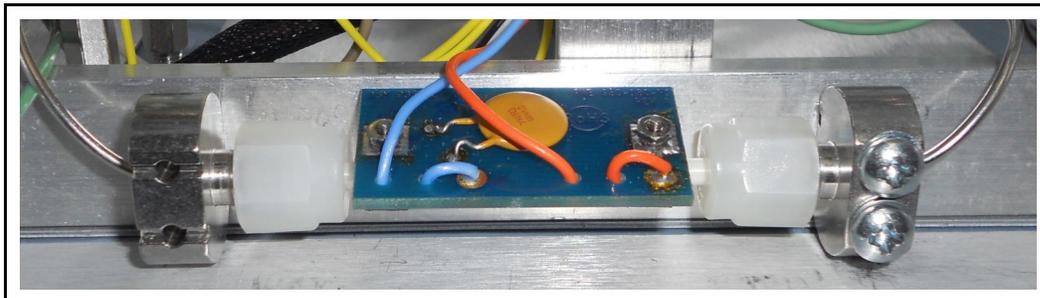
- 11** Ensure that the concentrator is fully seated into the left concentrator elbow. Using a 7/16" wrench, tighten both nuts by 1/4 of a turn. See [Figure 13](#).

*Figure 13*



- 12** Replace the concentrator board by gently fastening into place. Verify that the clips are placed on the metal bands of the concentrator. See [Figure 14](#).

*Figure 14*



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- 13** Position the metal cover as shown. Using a screwdriver, screw the four screws into the proper locations. See [Figure 15](#).

Figure 15



- 14** Shut the front panel, secure the latch, and plug in the power cord. The CMS5000 will begin its startup sequence.