



Dynamax EXO-SKIN Sap Flow Sensor Installation Guide

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Dynamax EXO-SKIN Sap Flow Sensor



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EXO Sensor Installation

Power should be off during all steps

1. Prepare the stem by smoothing the thin bark, or removing thick bark with sandpaper if necessary. Small stems may be removed and sanded smooth. Try to minimize the damage to the living tissues of the plant.
2. Wash with soapy water.
3. Measure the stem diameter in mm. You can use an average diameter if the stem is not perfectly round.



4. Spray a thin layer of canola oil around the stem.
5. Add a small amount of G4 grease and coat the insides of the sensor. Wipe off the excess grease with a soft cloth. Put a thin layer of grease on the heater strip that extends outside the sensor as well.



6. Install the sensor around the stem. Tuck in and overlap the heater strip. The cork substrate does not go all the way around the stem. There should be a short section of heater still visible in the gap of the sensor.

Be careful with the heater, to make sure it does not get kinked or doubled up in any way.

7. Wrap the stretchable Velcro strap around the sensor from top to bottom, overlapping 3-5 mm. For larger EXO sensors, you may use two straps to wrap from the center to the top and from the center to the bottom.



8. Note the sensor Ohms resistance value written on the sensor cable.
9. Attach the cable. There is a notch to line up the connectors then there is a “click” when the connector is

completely tight.

10. Install the (3) foam bodies with Velcro straps. The cable goes inside the gap of the bottom foam body before the Velcro strap is tightened.



11. Install the white waterproof membrane cloth with a nylon wire tie or Velcro strap at the top and at the bottom.



12. Install bubble shield on the stem below the sensor with tape. Try to insulate at least two sensor lengths or more of stem below where the sensor is installed.




13. Install bubble shield around the entire sensor and tape in place, especially at the top. Leave the bottom of the bubble wrap un-taped for ventilation.

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Documents / Resources

 <p>EXO-SKIN Installation Quick Start Guide</p> <p><small>© 2011 Dynamax, Inc. All rights reserved. For more information, visit www.dynamax.com or call 281-564-5100.</small></p>	<p>Dynamax EXO-SKIN Sap Flow Sensor [pdf] Installation Guide EXO-SKIN Sap Flow Sensor, EXO-SKIN, Sap Flow Sensor</p>
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