

Exterior Moda Sensor Installation Guide

INSTALL SENSORS ONTO THE TANK(S):

NOTE: This section covers the installation of our external sensor modules. Each monitor panel uses different wiring colors so please refer to your monitor panel installation guide for the specific wiring diagram for your panel. Sensors styles may vary and your particular sensor package might include sensors other than the external variety described here.

An external sensor is comprised of two parts: THE FOIL TAPE and the SENSOR MODULE. Refer to **Figure #2** and repeat the following steps for each tank.

- Measure and cut to length two strips of foil tape. Each strip will run $\frac{1}{2}$ " from the top of the tank and $\frac{1}{2}$ " from the bottom of the tank (or to the lowest water level). NOTE: Each strip of foil tape should be between 15 and 40 square inches (multiply the length times the width) it may be necessary to trim away or add to the tape width to stay within these parameters.
- Prepare the tank area where the foil tape is to be placed by rubbing down the area with common isopropyl alcohol. Remove the paper backing from the foil tape strips and place them on to the tank in the designated areas. Smooth out any trapped air bubbles. Follow the dimensions on **Figure #2** below.
- If your tank is less than 8" tall, then you will need to add additional tape and/or bring the tape closer together. If you are adding additional tape width, see **Figure #2 A** below.

IMPORTANT: The foil tape strips must be an inch or more away from large metal objects such as framework, metal siding, stored items, etc...

- Remove the paper backing from the copper pads and from the module. Place a copper pad onto each of the two foil tape strips.
- When you have installed the entire system, calibrated and tested it; then, apply a thin coating of 3M-spray (ie. Formula 77 or other), or any non-conductive adhesive over the top surface area of the exposed tape to ensure corrosion will not occur. This is optional and will not affect the outcome of your readings.

IMPORTANT: PROVIDE ADEQUATE VENTILATION WHEN APPLYING THE ADHESIVE, PARTICULARLY IF WORKING IN A CONFINED AREA.

NOTES: The copper pads can be trimmed if they exceed the width of the foil tape, they can also be placed anywhere UP or DOWN the length of the tape.

NOTE: READ CAREFULLY : "CAUTION" Do not use staples or nails to secure wiring. Also route wires so they do not interfere with storage areas and away from potential sources of heat (oven, exhaust pipes, etc.). Due to the vast range of application possibilities it is not practical for us to include hookup wire in the kit. It is however, commonly available and inexpensive. Use of 18 gauge stranded wire and make certain you have enough to perform all connections.

You will be using your hookup wire to make connections to a 12 volt D.C. power source and for connecting the panel to the tank(s). After studying the wiring installation procedures for the panel you are hooking up your Moda sensor to, you can cut your hookup wire to required lengths, then strip the insulation on all wire ends approximately $\frac{1}{4}$ " and use butt connectors or wire nuts to join wires.

