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# Installation and Maintenance

## M3784 Conductivity Sensor Head

### Sensor Head

- 1 inch NPT (Standard) Conductivity Probes
- Probes can be cut to length. Remove probes from sensor head by carefully unthreading them from inserts. Do not over tighten when reinstalling.
- Cut two (2) probes to the same length, these will be the common and lower level probes. See figure 1.
- Cut one (1) probe to the desired length for the upper level of the tank. See figure 1.
- Spacer should be located approximately 1 inch from bottom of shortest probe.
- If build-up occurs on probes, a short circuit could occur. If this happens apply shrink tubing to the probes leaving the last 1/2 inch bare.

### Wiring

- Install cable into sensor head through the compression fitting supplied.
- Attach one lead between the common probe terminal and pin five (5) on the controller.
- Attach a second lead between the lower level probe terminal and pin six (6) on the controller.
- Attach a third lead between the upper level probe terminal and pin eight (8) on the controller.
- Tighten compression fitting until cable can not be pushed into sensor head.

### Ratings

- Maximum pressure: 30 PSIG
- Maximum temperature: 100°C

### Warnings

- Install controller according to applicable electrical codes. Unit must be installed using Madison R2 Controller. Do not connect directly to line voltage.
- Not for use in hazardous (explosive) environments.
- Do not exceed pressure and temperature ratings.

### Options

- Snap in flange / Bulkhead kit for mounting in thin wall tanks. Part number: 009-M03824-Kit.
- Extension kit for increasing length of probes. Part number: 005-M03797-Ext.

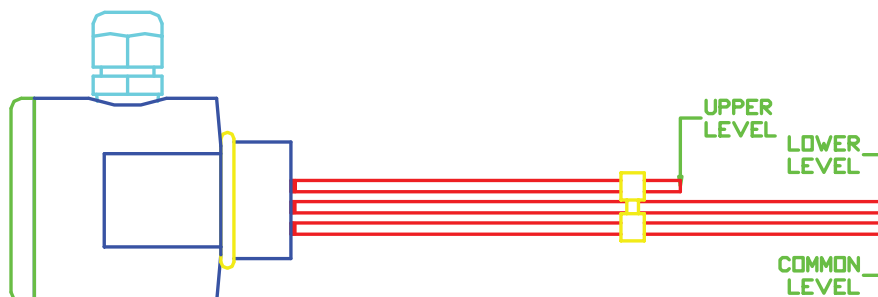


FIGURE 1

Madison Company, Inc.  
27 Business Park Drive  
Branford, CT 06405

ISO 9001 Certified

203-488-4477 or 800-466-5383  
info@madisonco.com  
www.madisonco.com

