

# **BORIN**<sup>®</sup> *Manufacturing, Inc.*

5741 Buckingham Parkway, Unit B, Culver City, California 90230, USA  
Telephone: +1-310-822-1000, Facsimile: +1-310-338-3434  
Email [borin@borin.com](mailto:borin@borin.com) - Web Site [www.borin.com](http://www.borin.com)

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## Installation Instructions

For the **Stelth 8<sup>®</sup>** Thru-Hull Zn-ZnSO<sub>4</sub> Model **SRE-036-ZTR**  
Fluid Service chloride contamination condition

**The Stelth 8<sup>®</sup> Thru-Hull reference electrode** is designed to be used for fluid tank service. The inner probe is constructed of a machined Delrin material with an outer stainless steel compression fitting. The end of the probe that protrudes into the tank is designed with a medical grade ceramic plug that acts as the sensing area. The end opposite of this is made with a ¼"x20 size threaded connection. This is the connection for a multi-meter or other measuring devices.

The Stainless steel compression fitting has a ¾" NPT thread on both ends. The protruding side is designed to screw into a ¾" NPT flange. We recommend using a standard **thread compound** at this juncture. The opposite ¾" NPT comes with a **Crouse-Hinds ¾" GUAB conduit** attached that in cases the ¼"x20 threaded end. This compression fitting is made with two threaded fittings and an inner sleeve that inhibits the inner probe from moving. This fitting is tightened around the inner probe prior to dispatch but should always be checked prior to installation.

Please note that although the stainless steel compression fitting component of this assembly is pressure tested to 100lb PSI the inner probe (reference cell) is not meant to withstand any pressure above the normal fluid head pressure of the tank.

**CAUTION:** If the **Stelth 8<sup>®</sup>** reference electrode is being used to control your rectifier, make sure that the device reading the reference cell has at least 20 mΩ of internal impedance. If not, you will be driving an excessive amount of current through the electrode, which will destroy it or any other reference cell placed in the same circumstances. Generally older equipment, dating back to the 1970's, had very low internal impedances. Older SCADA equipment almost always **cannot** handle this application correctly.

1. **Run** the lead wire attached to the **Stelth 8<sup>®</sup>** reference electrode to a separate terminal in your test station or rectifier.
2. **Attach** an additional wire to the structure.
3. **Run** this wire from the structure to another terminal in the test station or rectifier. **Don't** connect these wires together. (By connecting these two wires together you may possibly create a condition where current is allowed to pass through the reference cell causing its ultimate failure).

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