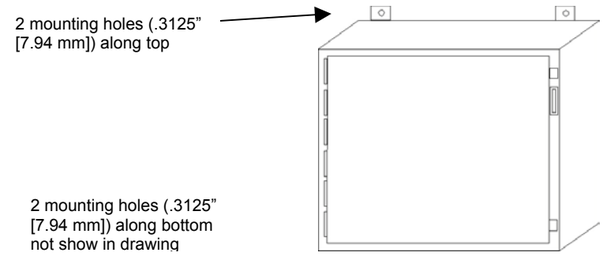
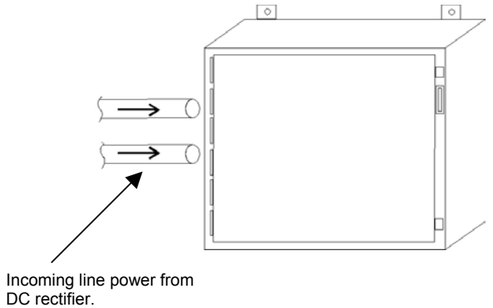
UFS Corporation
Quickstart Installation Guide
Membrane Electrode Cell Current Sensor & Power Distribution Panel

Please read carefully before performing any work! NOTE: Not all electrical connections are shown in the drawings.

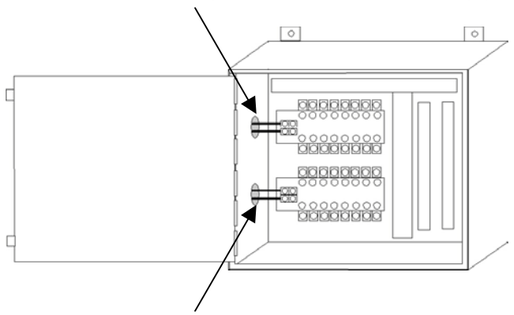
A. Choose a suitable location to mount the Shunt Panel. UFSc recommends a location close to the ED tank and below the rim. The panel should be mounted at a level to make it accessible for maintenance.



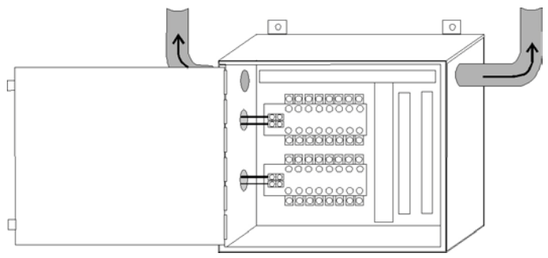
B. Size wire cable conduit as required. The suggested entry is on the left side of the panel.



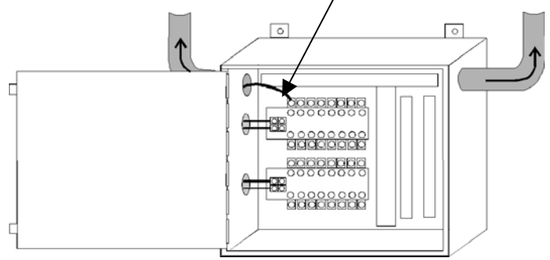
C. Attach the wire panel to the mini bus bar(s).



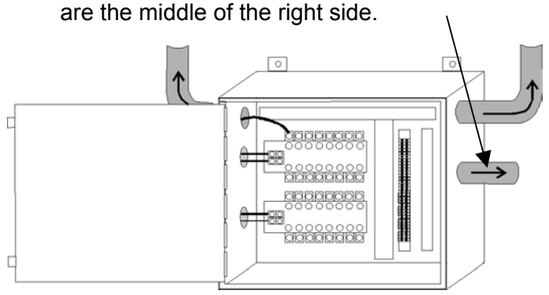
D. Size load cable conduit as required. The suggested exits are upper left and right sides.



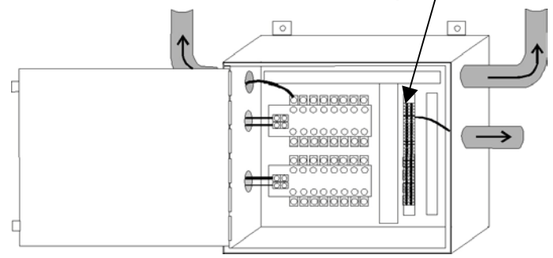
E. Attach load cables to negative side of shunt.



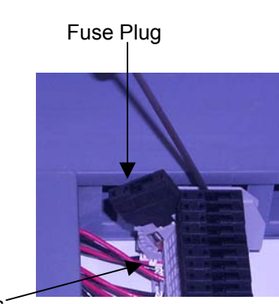
F. Attach the transducer conduit for up to 40 pairs of Belden Wire 9341. The suggested entries are the middle of the right side.



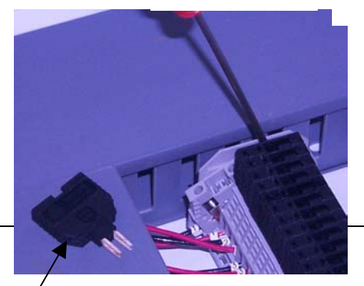
G. Attach the transducer cable pair to the appropriate terminal strip, observing polarity. Place a black fuse plug (shipped loose) into the top of each terminal strip. Place number on each wire that corresponds to the number on the other side of the terminal strip.



Picture 1



Picture 2



Picture 3

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H. Connect transducer draws to copper ground lug. Do not cross on other end of transducer cables.

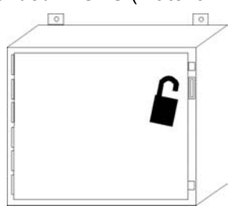
I. **Test and Debug –**
   i. Tighten any loose connections.
   ii. With a meter, check the continuity from the line side of the shunt to extreme far ends of both the positive and negative sides of the transducer cable runs. Repeat test for each cell. Fix and or repair continuity problems as they are found. See Pictures 1, 2 and 3 if you have to remove a Fuse Plug
   iii. Make sure shields are grounded on one side only.

Safety!

A safe work environment for our customers (their employees and outside contractors) is of utmost importance to UFS Corporation. All applicable OSHA and owner's safety requirements must be followed when performing any maintenance, inspection, and repair or testing on Electrodes and/or Electrode Systems. This includes, but is not limited to, the following safety regulations: Lockout/Tryout (Energy Control); Hazard Communication; Confined Spaces; Personal Protective Equipment; Electrical Safe Work Practices; Ergonomics and Material Handling; Accident Prevention signs (Danger – Energized Equipment).

Before installing or working on the DC rectifier, Lockout/Tryout procedures are to be followed.

Continuous training of employees on ED equipment and system installation, operation, and maintenance of UFSc components is strongly recommended. MSDS (Material Safety Data Sheets) are provided for UFSc materials, and replacement or missing copies are available upon request from the UFSc Safety Coordinator.



Refer to your Getting Started Package for more detailed information on your system. For further assistance contact UFSc Customer Service.