

ROSEMOUNT®



EMERSON™

Process Management

Team 2

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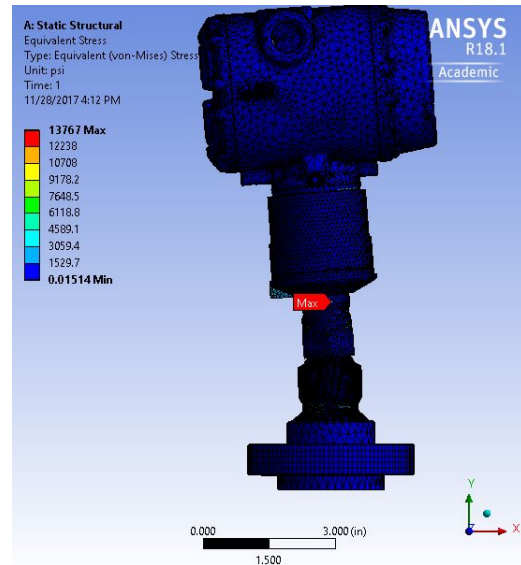


Project Summary

Emerson-Rosemount Measurement is an industry leader in industrial pressure, level, temperature and flow measurement devices. There are 100,000 inline direct mount assemblies made each year. These assemblies are implemented in a vertical and horizontal position. This project focuses on the weld strength of the inline direct mount assembly in static and cyclical loads.

Design Goal

The goal of this project is to analyze the weld joint near the bottom mounting plate to provide a baseline fatigue limit as well as how to improve the life of the joint including a manufacturing procedure



Design Constraints

- Cannot exceed height of current design
- Must function the same as the current design
- Must meet 3g vibration, desired 5g
- Must withstand a 300 pound static load

