

Sept. 16, 2015

In <http://bnordgren.org/seismo/FMES2.zip>

This is a collection of files which document the Fluid-Mass Electrolytic Seismometer [FMES] created by Dave Nelson.

The documentation is not yet complete. Dave's formula for the electrolyte needs to be included, along with setup and adjustment procedures. The most recent schematic needs much information added and the material list needs to be expanded. Check back to obtain the latest updates.

When compared with verticals, like all horizontal instruments, the FMES will suffer from the high horizontal background (tilt) noise present at all amateur sites, though it will still perform better than most, if not all, Lehman designs. Large changes in temperature alter the electrolyte viscosity, which will cause a change in the instrument's frequency response, as shown in the Excel workbook..

The less common CPVC tubing is used because elbows with ears are not available as standard PVC fittings.

Brett Nordgren