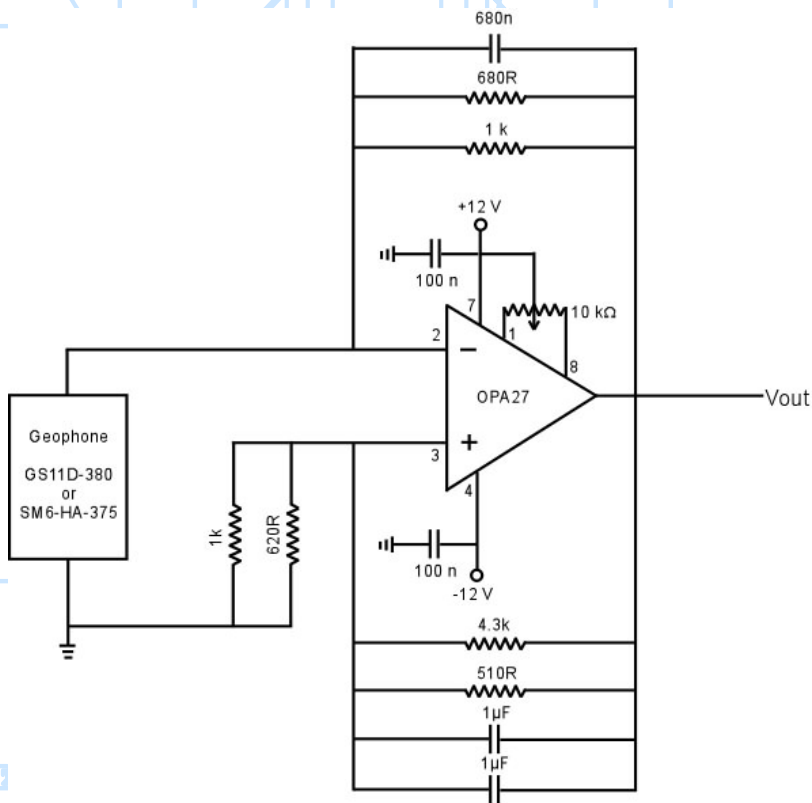
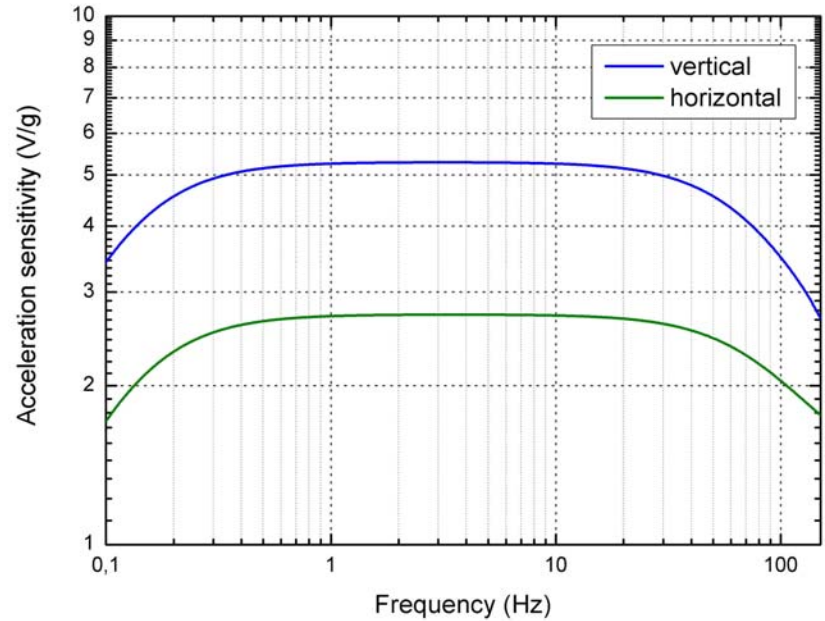


Adapting the pre-installed geophones for vibration measurements during M8 transportation



Overdamping circuit diagram

The single opamp feedback circuit transforms each geophone into an accelerometer and extend the low frequency (1-10 Hz) acceleration mechanical range from 0.15 to more than 4 g peak-to-peak



Frequency response

M8-geophone connection pinout (SUB-D 9-poles)

- 1-quadrupole horizontal (+)
- 2-quadrupole horizontal (-)
- 3-quadrupole vertical (+)
- 4-quadrupole vertical (-)
- 5-NC
- 6-center vertical (+)
- 7-center vertical (-)
- 8-NC
- 9-NC

*the geophone coil is floating; please connect one of the two terminal to the ground of the circuit