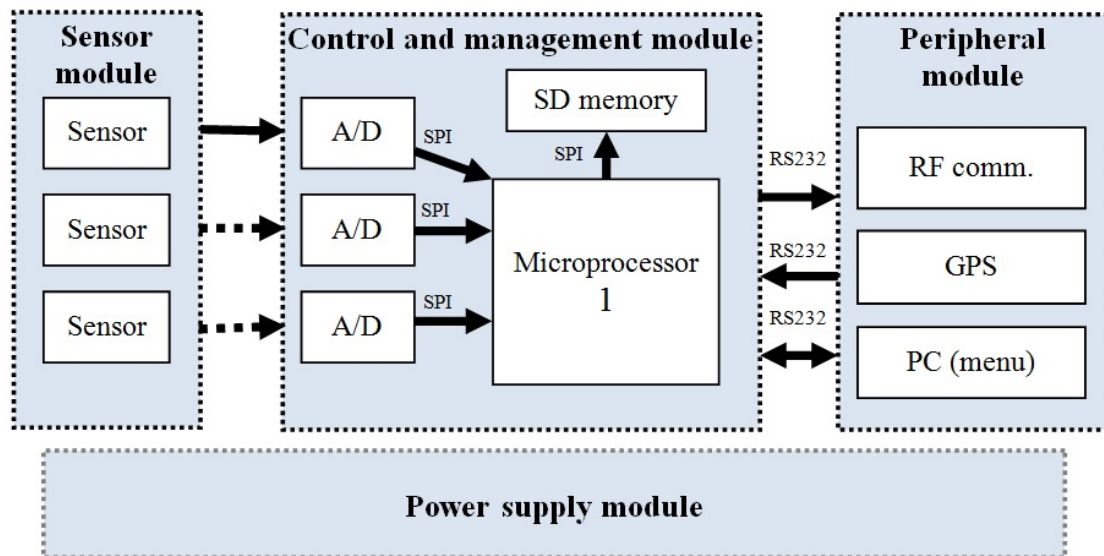
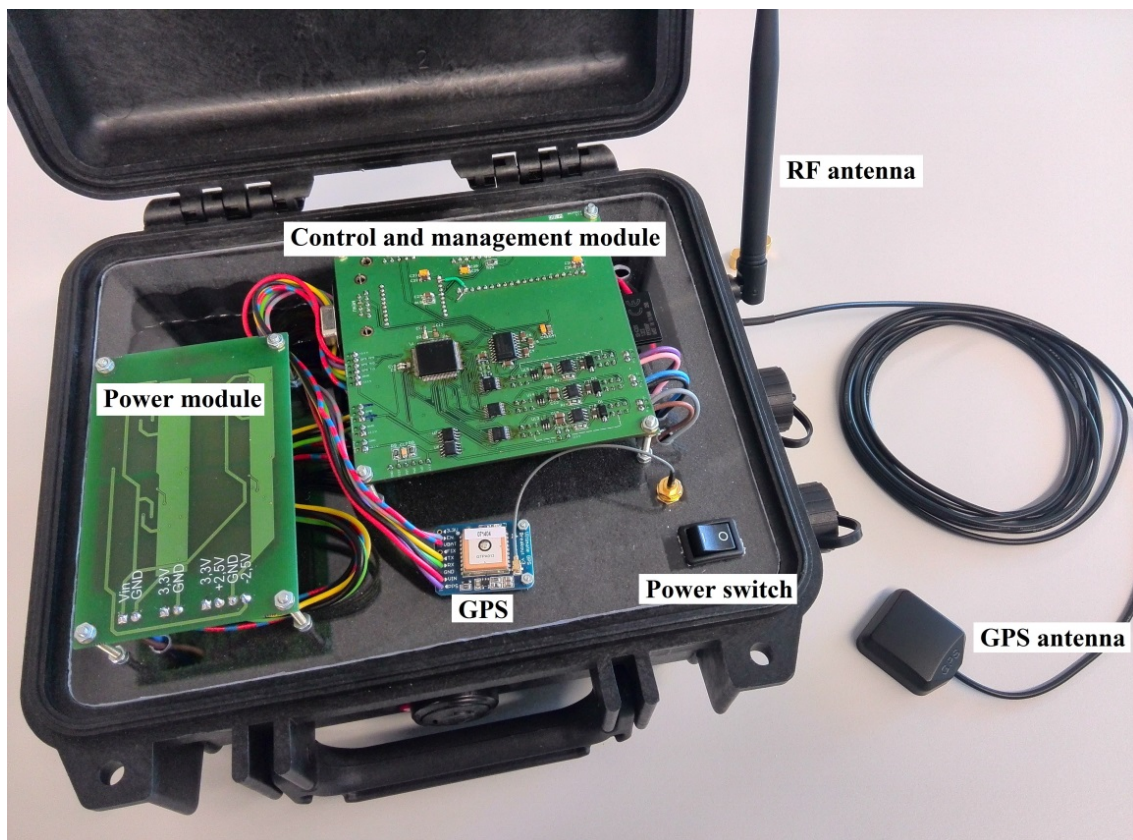


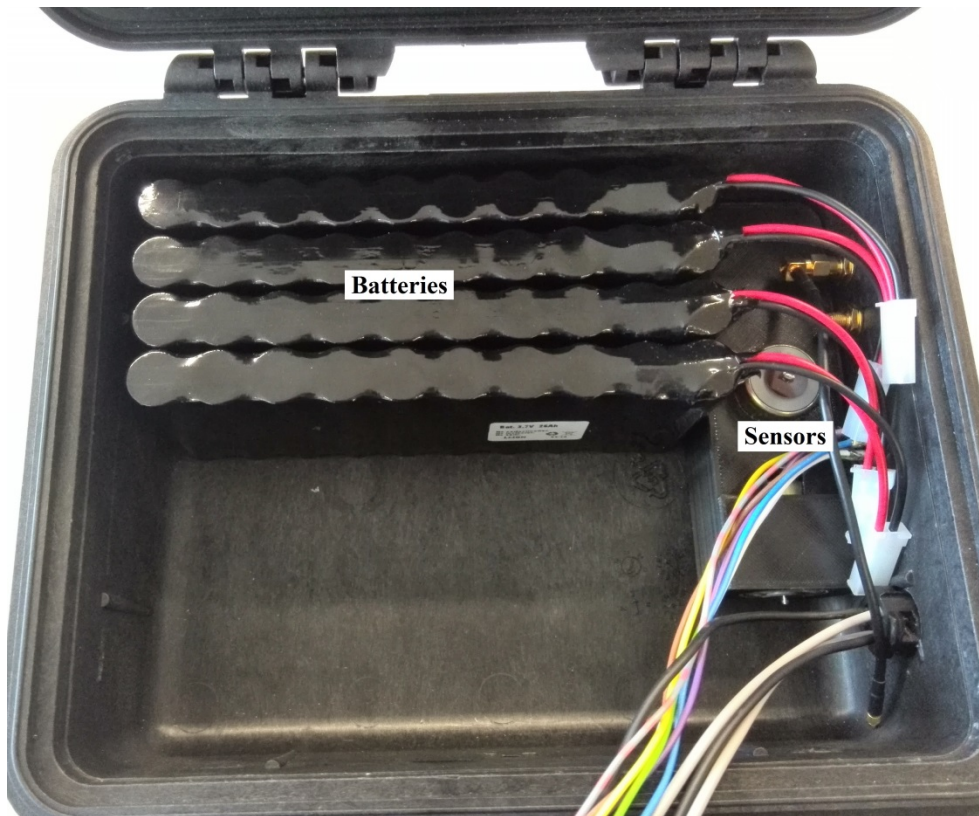
**Figure 1** Block diagram of the seismic acquisition equipment



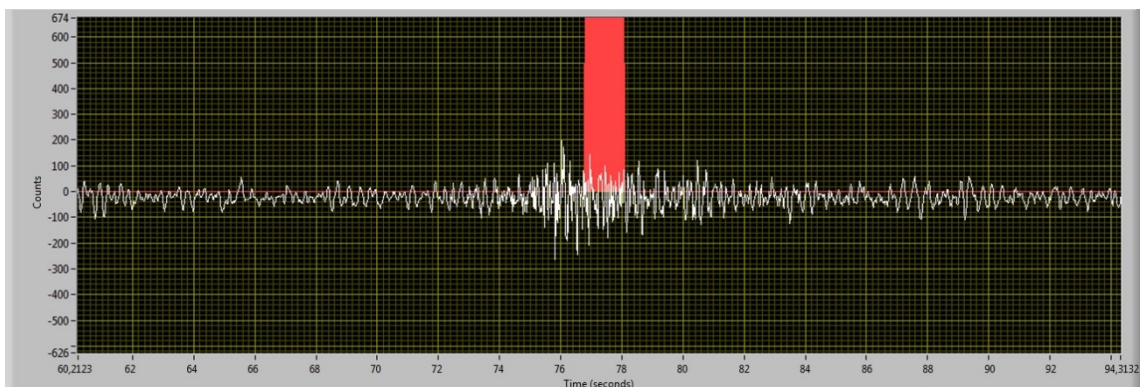
**Figure 2** Volcanic seismic acquisition equipment



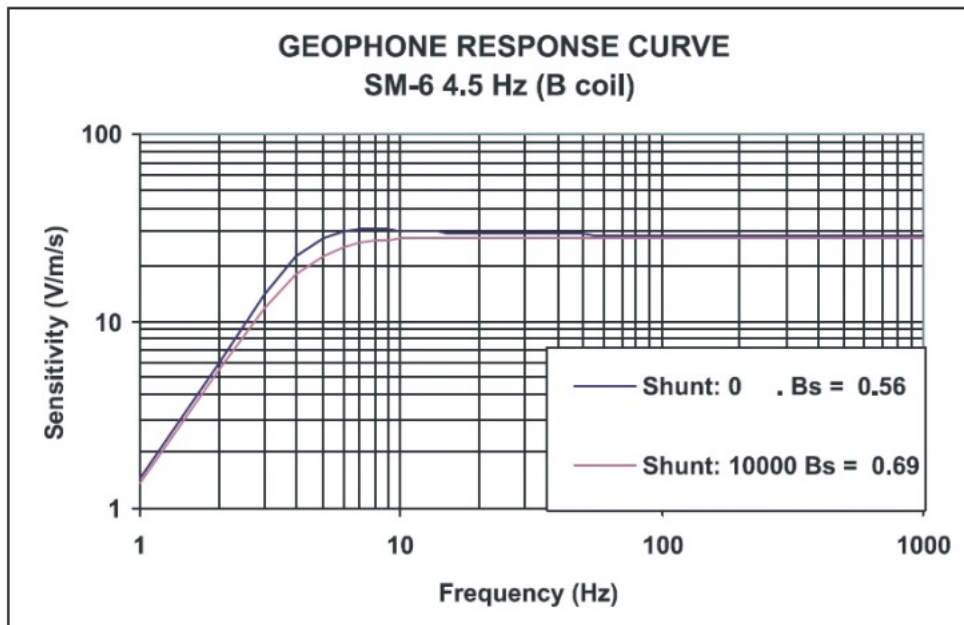
**Figure 3** Location of batteries inside waterproof box



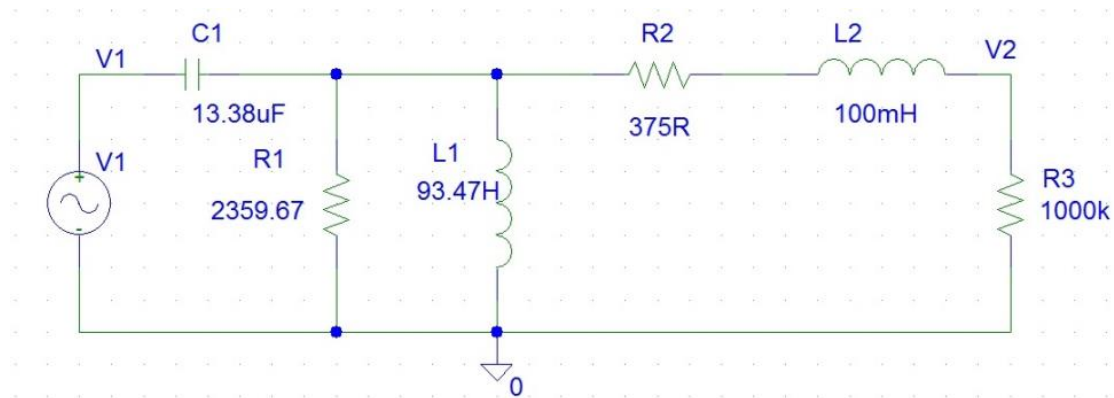
**Figure 4** Seismic event detected in El Hierro on 16/07/2012 at 03:01:09 at a depth of 20km (contrasted data with IGN events catalogue), using the STA/LTA algorithm (Short Time Average / Long Time Average).



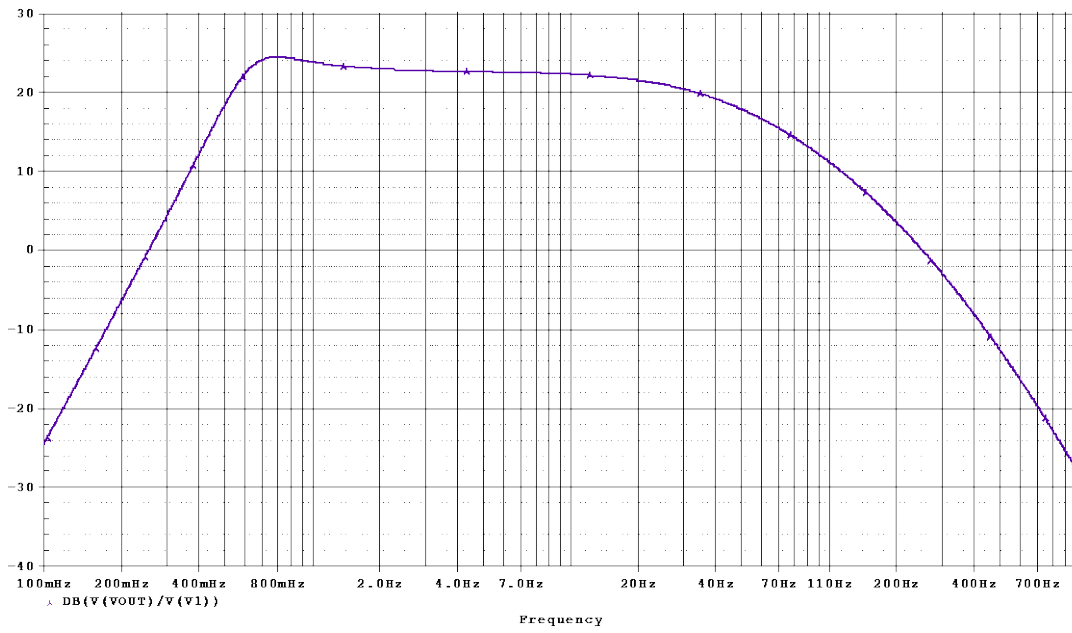
**Figure 5** Response of SM6 sensor according to the manufacturer [22]



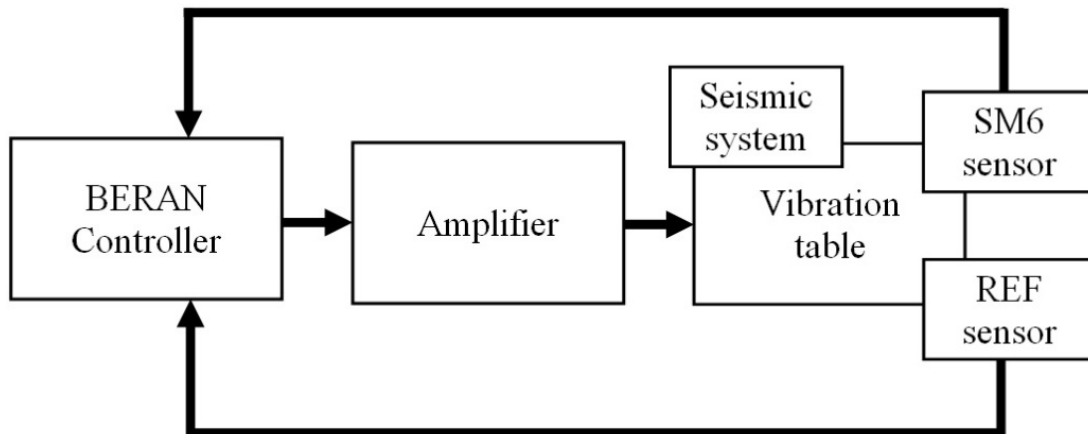
**Figure 6** Equivalent circuit of the SM6 sensor



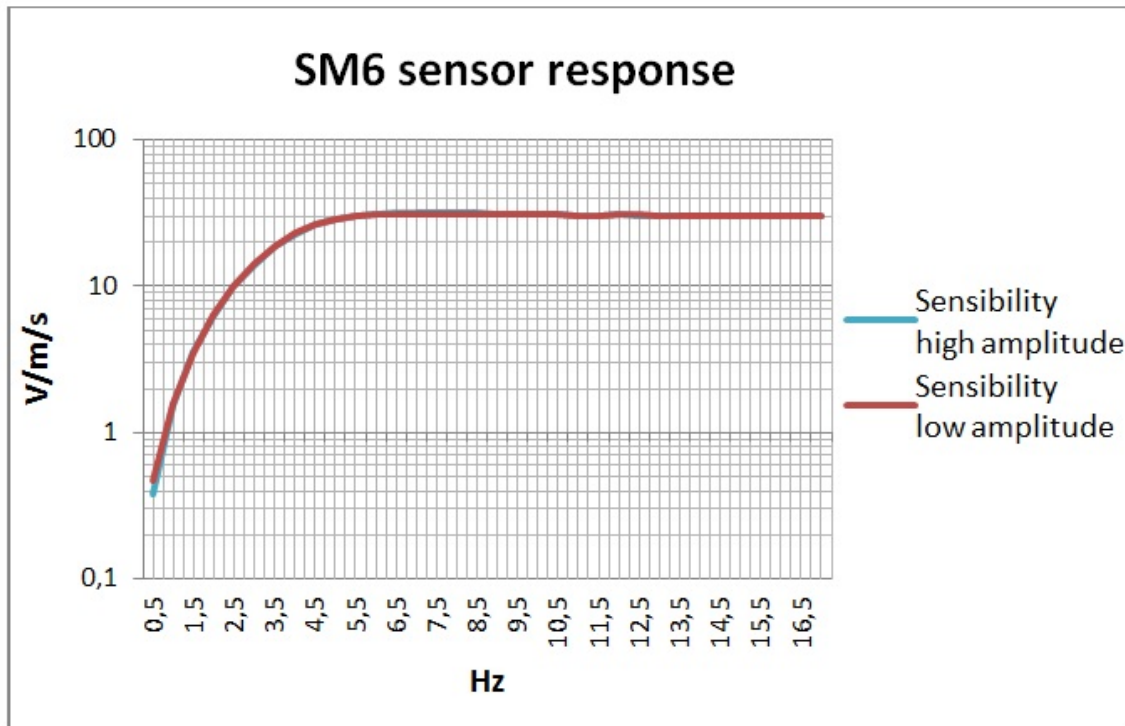
**Figure 7** Electromagnetic sensor responses through the conditioning circuit



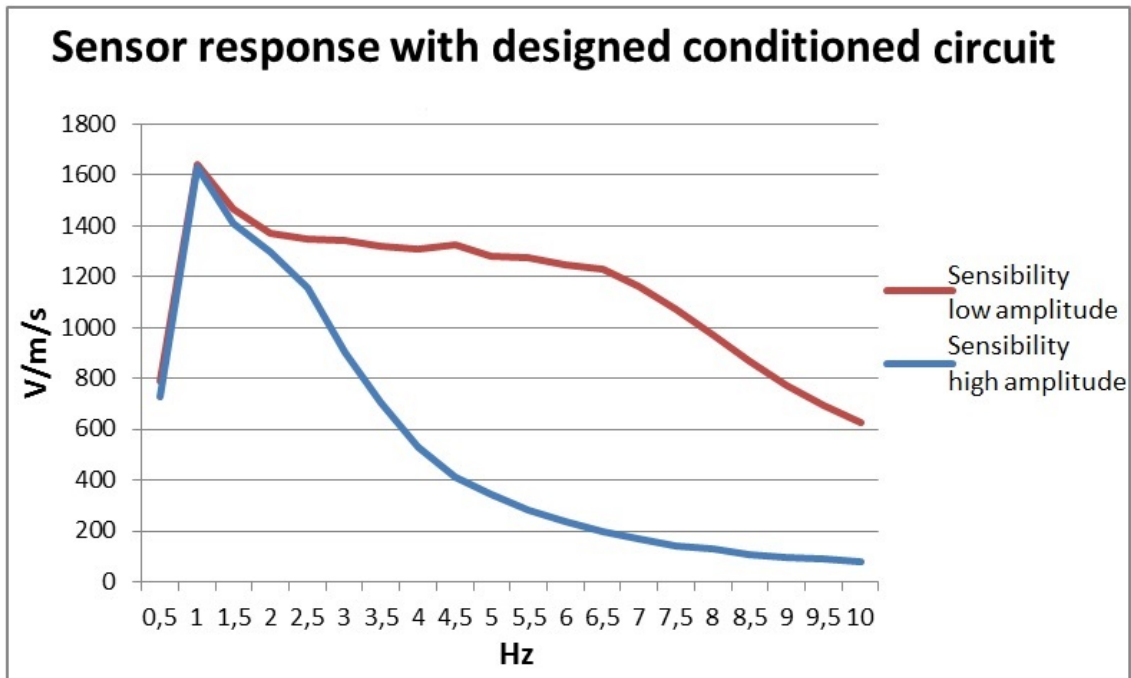
**Figure 8** Test connections in the table vibration



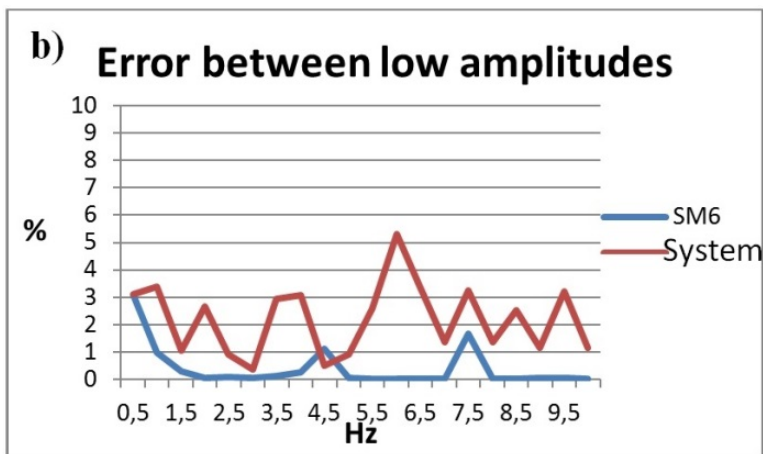
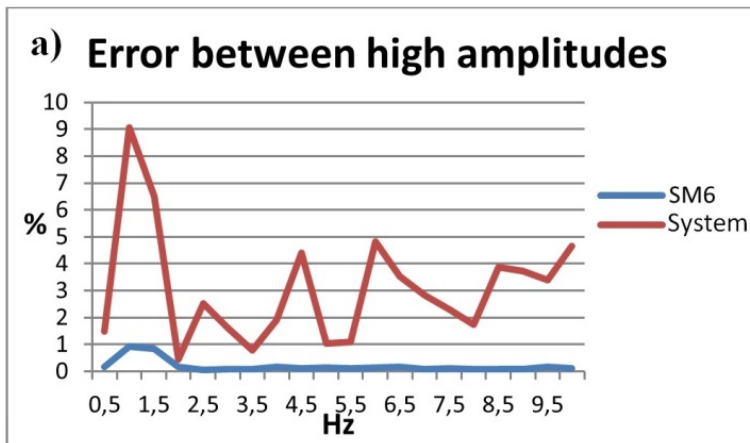
**Figure 9** Response of SM6 sensor in laboratory test



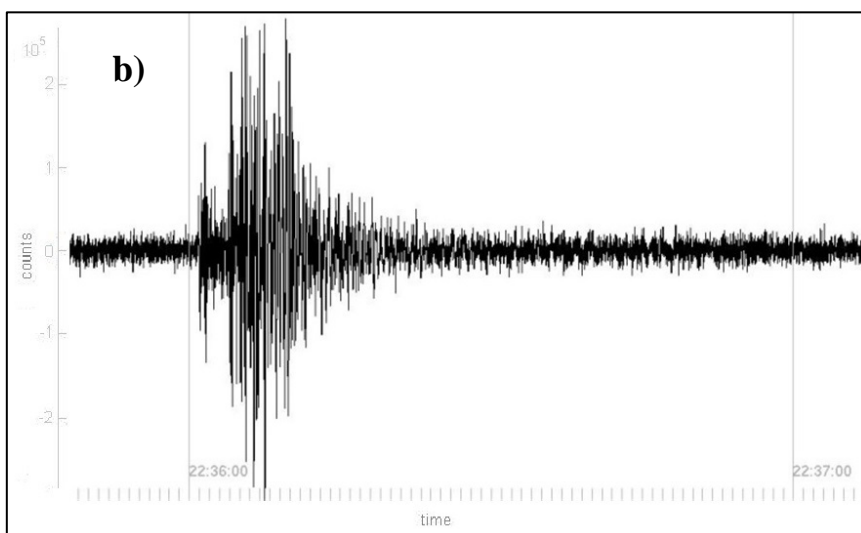
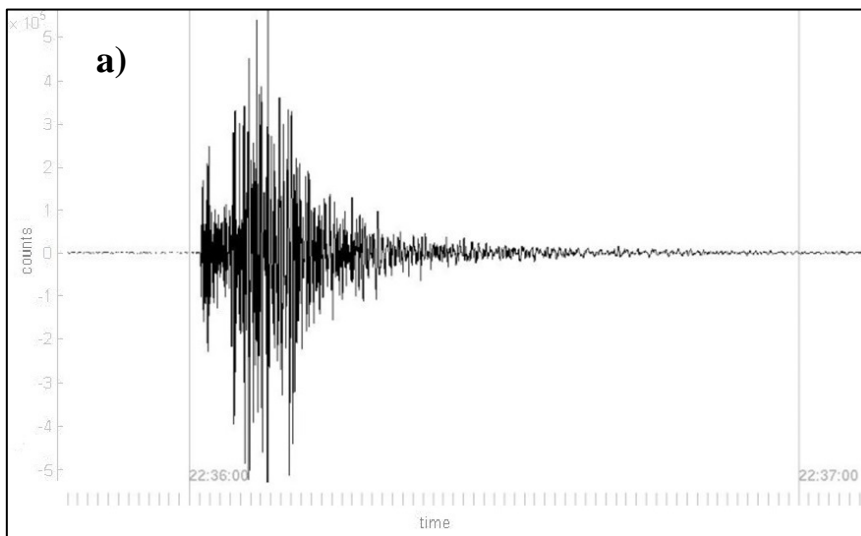
**Figure 10** Graphic results of SM6 sensor with the designed conditioned circuit



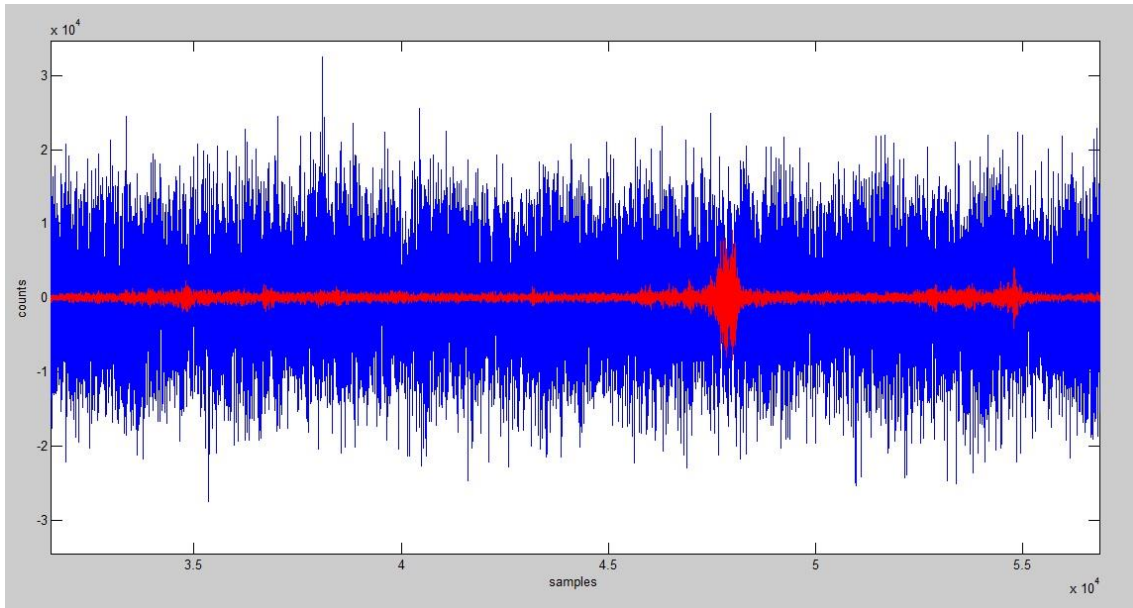
**Figure 11** Relative errors between tests with the same features. (a) Error between high amplitudes test. (b) Error between low amplitudes tests.



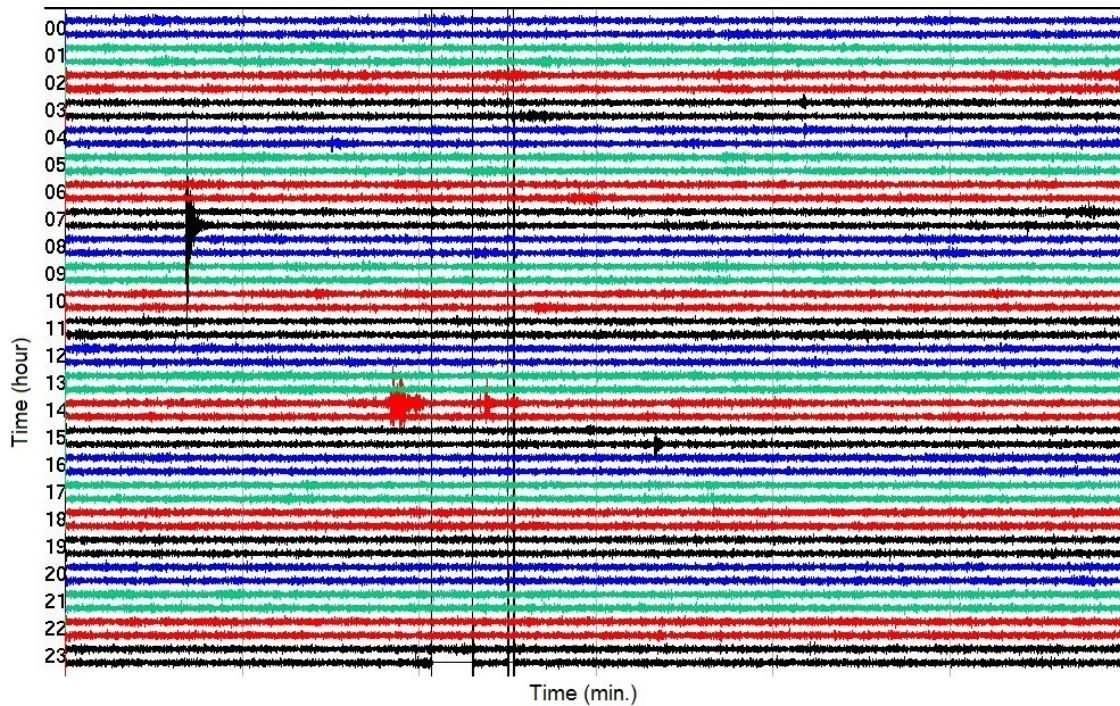
**Figure 12** Obtained events on *El Hierro* Island in Canary Islands, on September 3, 2014 at 22:36.(a) Taurus reference equipment signal (b) Designed equipment signal



**Figure 13** Comparison of acquired signals. Designed equipment in blue, and reference equipment in red.



**Figure 14** Signal acquired by reference equipment in a complete day in *Las Cañadas del Teide* in Tenerife, Canary Islands. December 13, 2014.



\* Each data line of vertical axis represents 30 minutes of the corresponding hour.



**Figure 15** Obtained events in *Las Cañadas del Teide* in Tenerife, Canary Islands, on December 13, 2014 at 07:33. (a) Guralp reference equipment signal. (b) Designed equipment signal.

