Measurements

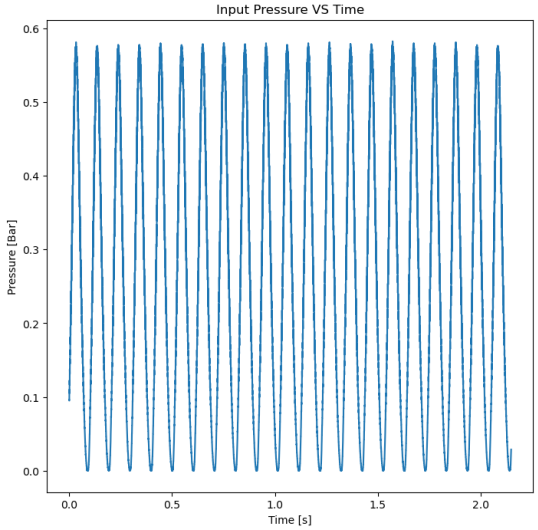
March 15, 2022

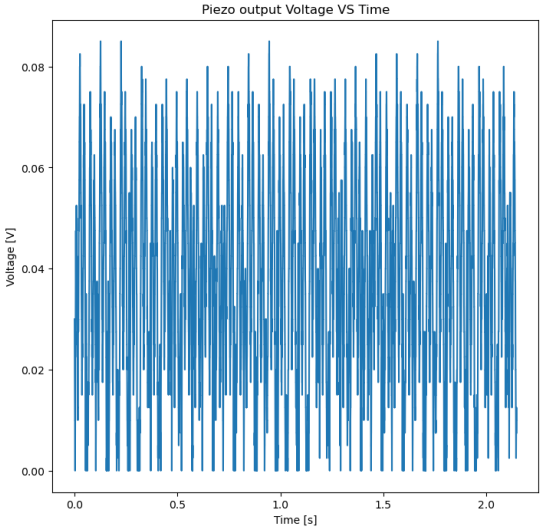
1 PARAMETERS

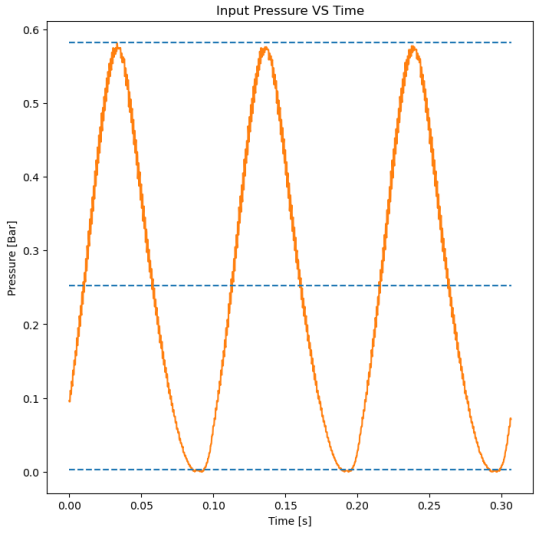
`Sample name: ES.PVDF.E0.0m.100nm`

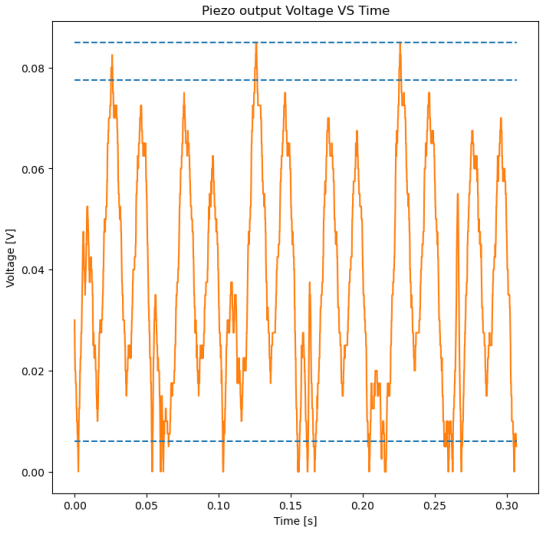
2 PRESSURE AND VOLTAGE MEASUREMENTS

`The input frequency is:  9.78 Hz`









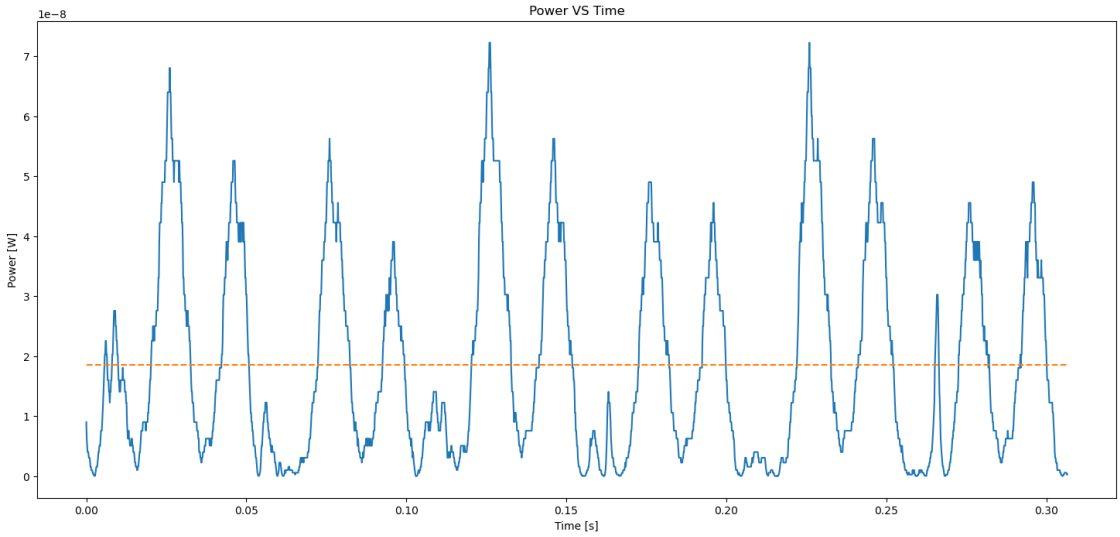

```
Max pressure: 0.58 [Bar]
Min pressure: -0.00 [Bar]
Peak to peak pressure: 0.58 [Bar]
Mean pressure: 0.25 [Bar]
Max voltage: 0.09 [V]
Min voltage: -0.08 [V]
Peak to peak voltage: 0.16 [V]
Mean voltage: 0.01 [V]
```

3 PRESSURE DERIVARTIVE

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-43-f3187c4f2ce5> in <module>
      1 ### Plot the denoised input pressure and its derivative
----> 2 pressureDN          = data( pressure.t[ : 2*period ], pressure.y[ :␣
 ↪2*period ] )            # Define a new data object for pressure cropped
      3 pressureDN          = pressureDN.Denoise( 1000 )
 ↪                     # Denoise it using splines
      4 pressureDN_dt       = np.gradient( pressureDN.y, pressureDN.t, axis=0,␣
 ↪edge_order=2 )        # Compute time derivative
      5

NameError: name 'pressure' is not defined
```

4 POWER




```
Mean power: 1.85e-08 [W]
```

5 FREQUENCY ANALYSIS