Measurements

March 17, 2022

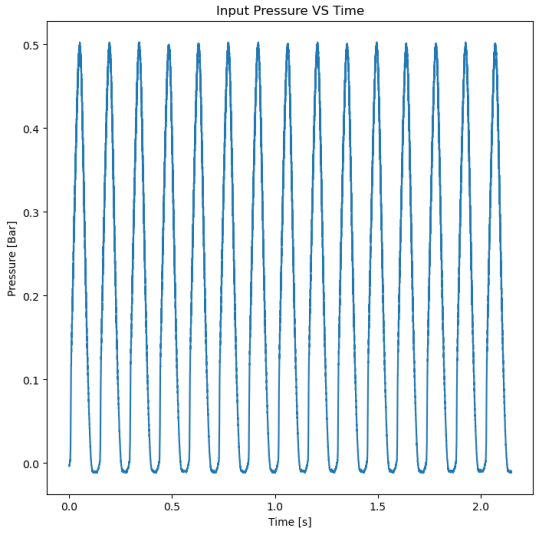
1 PARAMETERS

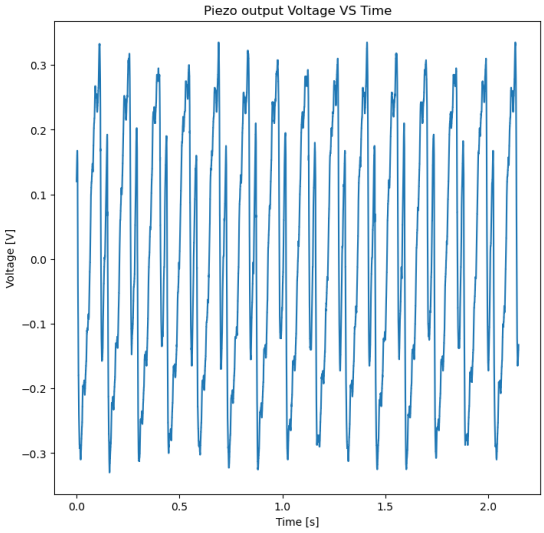
`Sample name: ES.PVDF.E0.0m.100nm.6.99Hz`

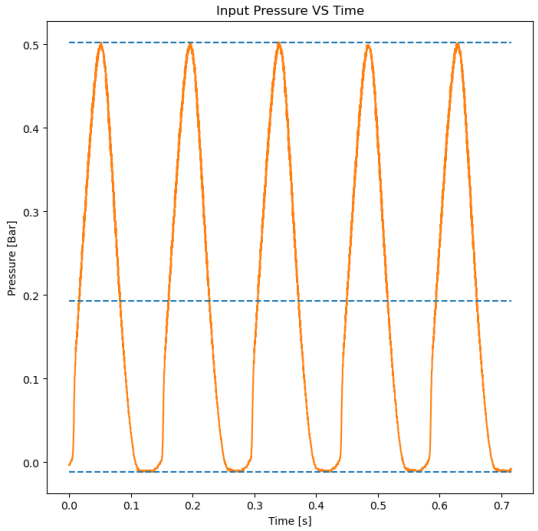
	Parameter	Value	Unit
0	Sample name	ES.PVDF.E0.0m.100nm.6.99Hz	
1	Measure duration	2.147483648	[s]
2	Rload	6000000.0	[Ohms]
3	Nb Periods	5.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	30.0	[Hz]

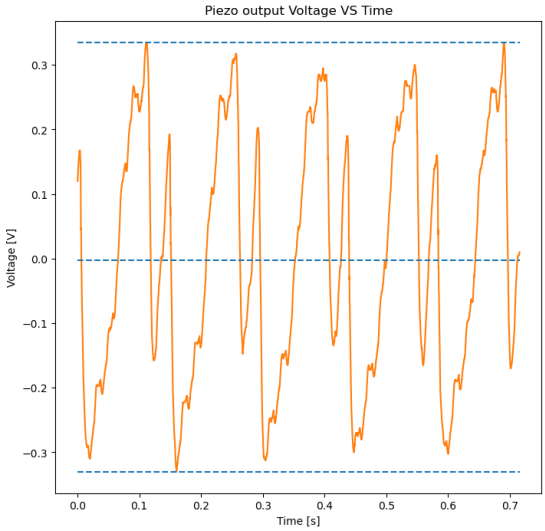
2 PRESSURE AND VOLTAGE MEASUREMENTS

`The input frequency is:  6.99 Hz`



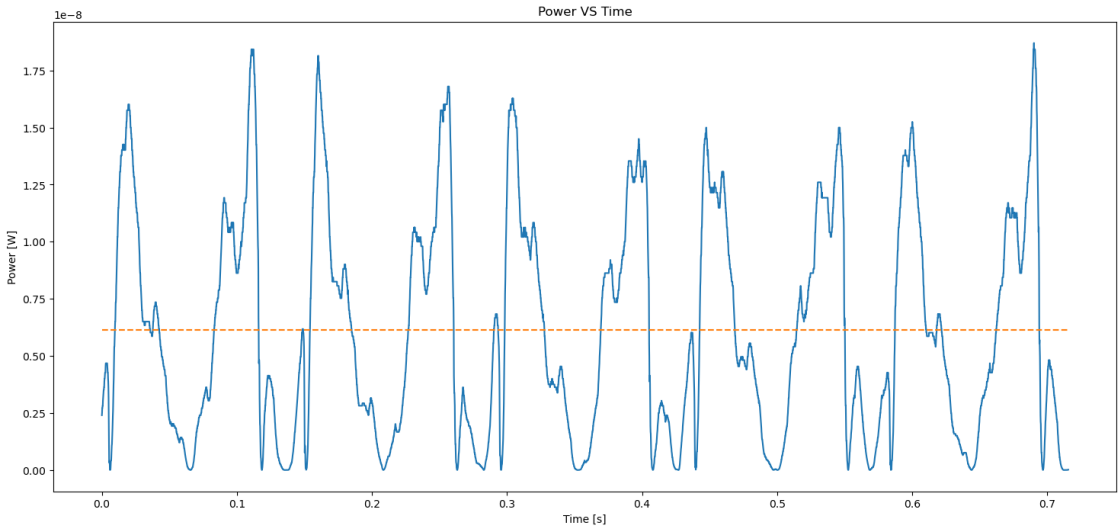






	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-1.12e-02	5.02e-01	5.14e-01	1.93e-01	1.97e-01
1	Voltage [V]	-3.30e-01	3.35e-01	6.65e-01	-2.18e-03	1.71e-01

3 POWER

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Mean power: 6.15e-09 [W]
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4 FREQUENCY ANALYSIS

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---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
C:\Users\DISPOP~1\AppData\Local\Temp/ipykernel_12572/3180650042.py in <module>
     30
     31 ### Plot graph and save it
---> 32 plotGraph([graphPressureFT, graphPressurePeaks], [graphVoltageFT,␣
 ↪graphVoltageFTHz50, graphVoltagePeaks], 'FourierTransform')

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

4.1 Voltage frequency peaks

	Freq [Hz]	Amplitude percentage
0	6.99	75.56
1	13.97	2.15
2	20.96	4.89
3	27.94	5.48

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	6.99	92.98
1	13.97	2.47