

Measurements

May 6, 2022

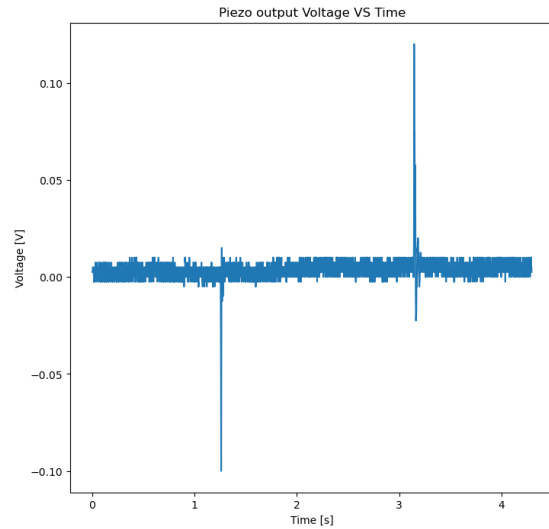
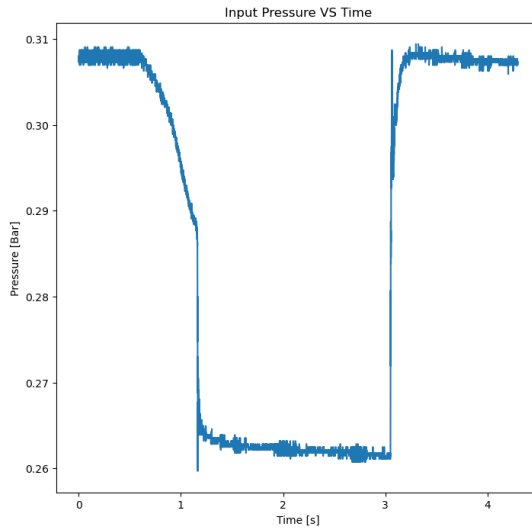
1 PARAMETERS

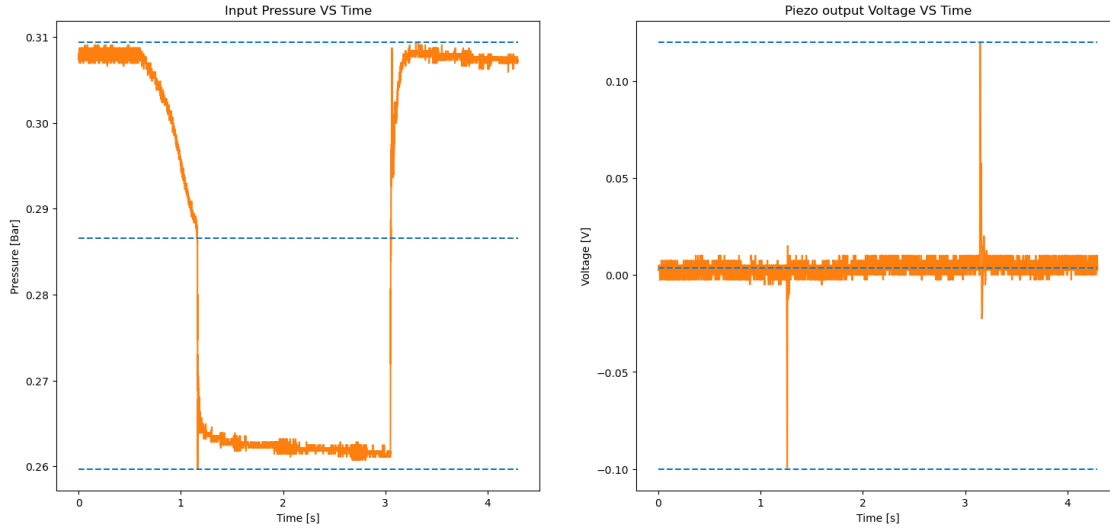
Sample name: AB-211206-085-ZNO

	Parameter	Value	Unit
0	Sample name	AB-211206-085-ZNO	
1	Measure duration	4.294967296	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	164.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

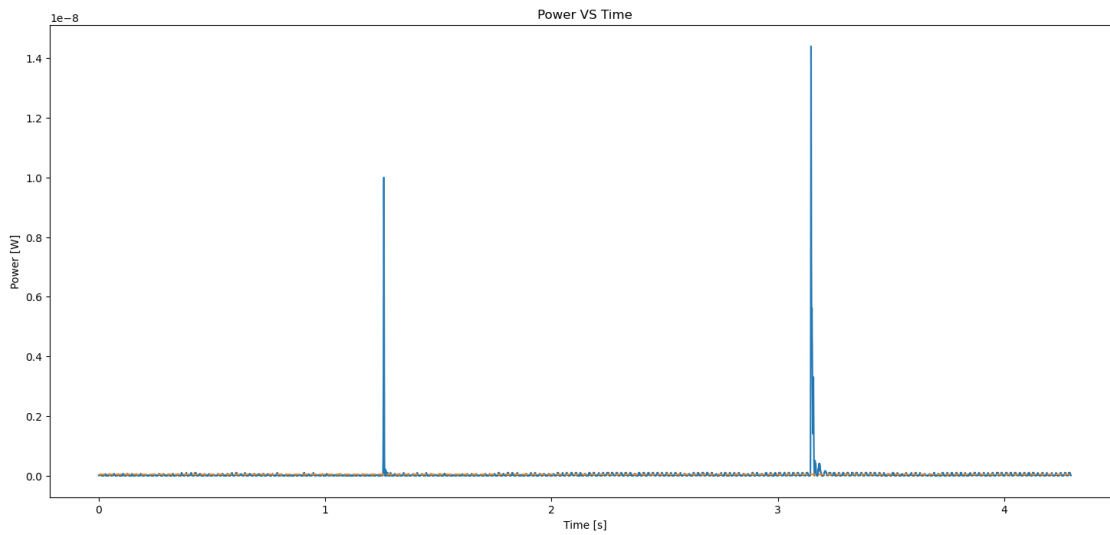
The input frequency is: 0.23 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	2.60e-01	3.09e-01	4.97e-02	2.87e-01	2.87e-01
1	Voltage [V]	-1.00e-01	1.20e-01	2.20e-01	3.55e-03	4.12e-03

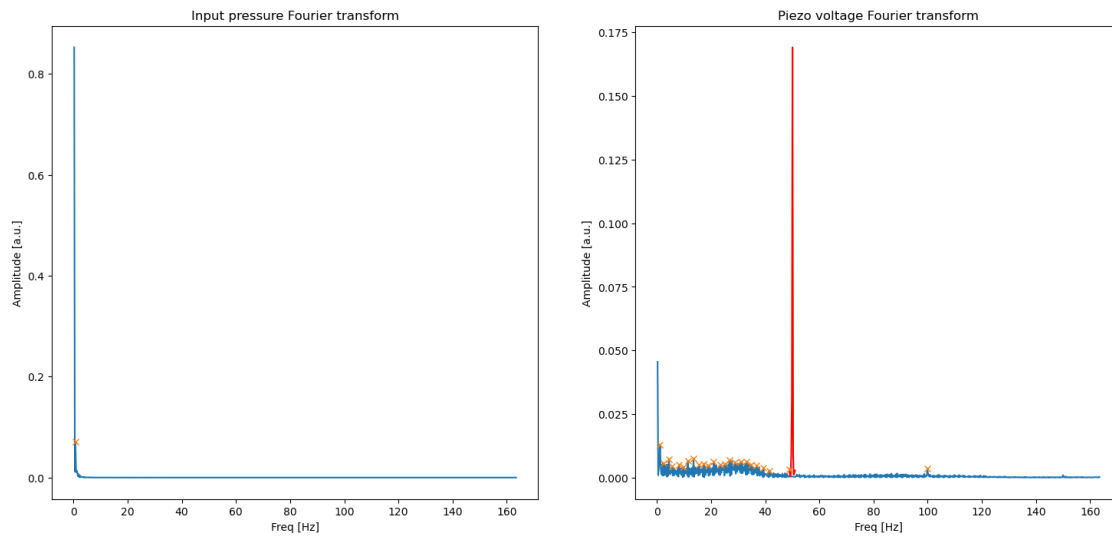
3 POWER



Mean power: 4.62e-11 [W]

4 FREQUENCY ANALYSIS

If an harmonic appears in the pressure Fourier transform. The piston has to be set to atmospheric pressure.



4.1 Voltage frequency peaks

	Freq [Hz]	Amplitude percentage
0	1.16	1.28
1	2.33	0.58
2	4.42	0.73
3	5.59	0.43
4	8.15	0.52
5	9.78	0.41
6	11.41	0.64
7	13.51	0.74
8	15.60	0.51
9	17.23	0.52
10	18.86	0.48
11	20.96	0.61
12	23.52	0.49
13	25.15	0.53
14	26.78	0.69
15	28.87	0.60
16	30.97	0.62
17	33.06	0.63
18	34.69	0.51
19	36.79	0.47
20	39.35	0.39
21	41.45	0.28
22	48.90	0.33
23	99.89	0.34

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	0.70	7.13