

Measurements

April 22, 2022

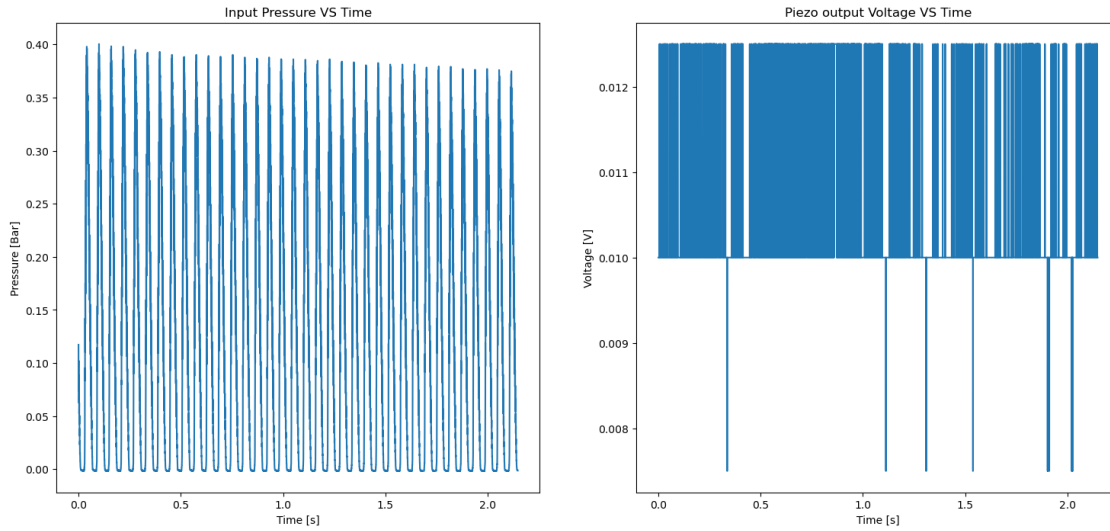
1 PARAMETERS

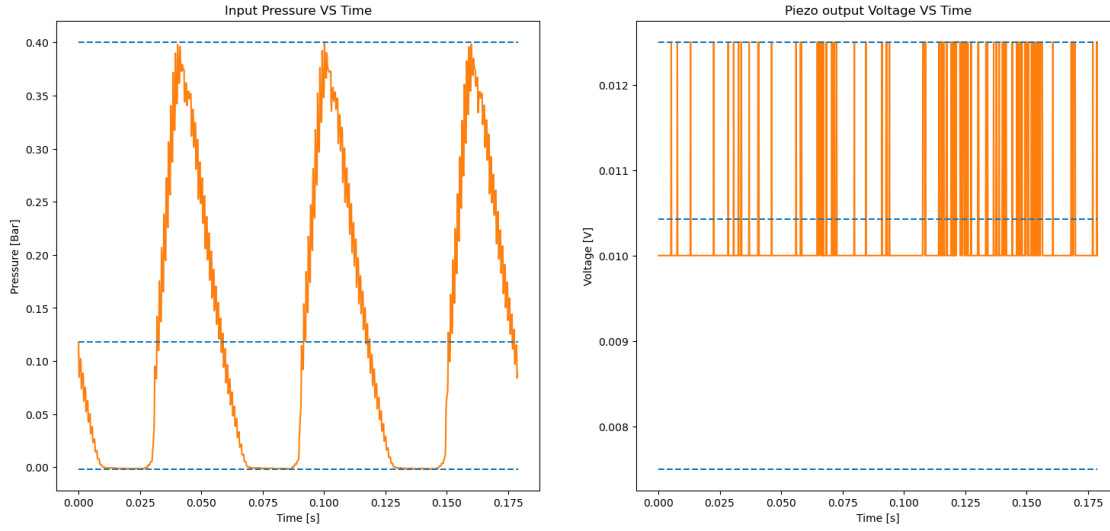
Sample name: AB-211206-085-ZNO

	Parameter	Value	Unit
0	Sample name	AB-211206-085-ZNO	
1	Measure duration	2.147483648	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

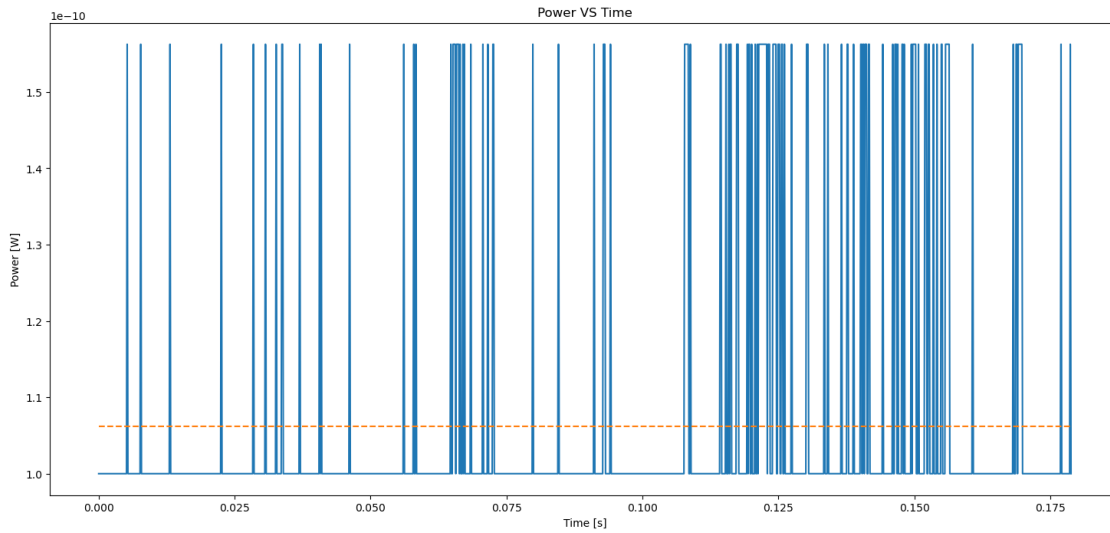
The input frequency is: 16.76 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-1.75e-03	4.00e-01	4.02e-01	1.18e-01	1.19e-01
1	Voltage [V]	7.50e-03	1.25e-02	5.00e-03	1.04e-02	1.04e-02

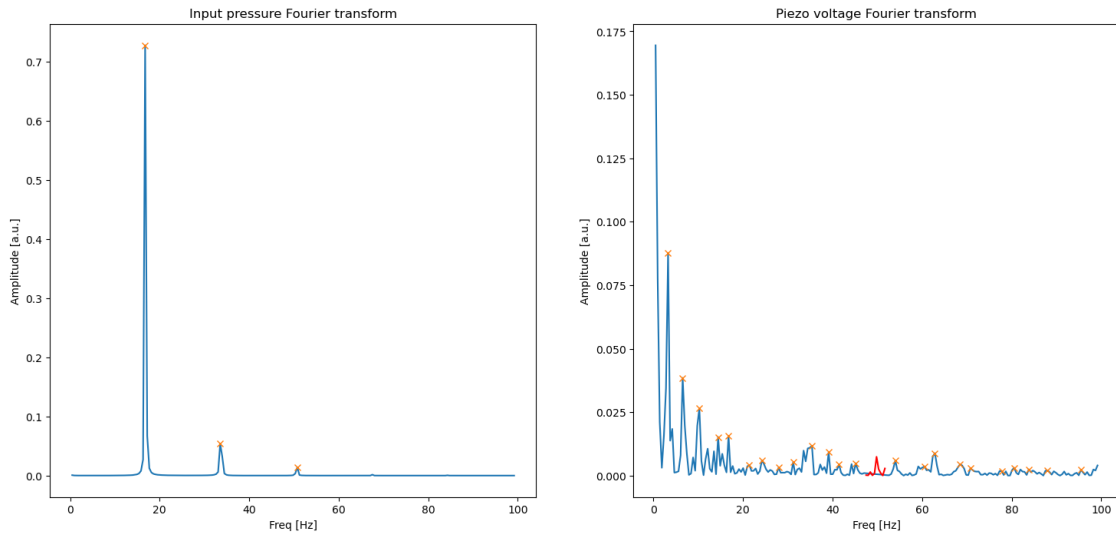
3 POWER



Mean power: 1.06e-10 [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	3.26	8.76
1	6.52	3.85
2	10.25	2.65
3	14.44	1.52
4	16.76	1.57
5	21.42	0.42
6	24.22	0.60
7	27.94	0.31
8	31.20	0.53
9	35.39	1.18
10	39.12	0.92
11	41.45	0.44
12	45.17	0.49
13	54.02	0.60
14	60.54	0.36
15	62.87	0.88
16	68.46	0.44
17	70.78	0.29
18	77.77	0.18
19	80.56	0.31
20	83.82	0.25
21	88.02	0.20
22	95.47	0.22

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	16.76	72.72
1	33.53	5.36
2	50.76	1.41