

Measurements

May 13, 2022

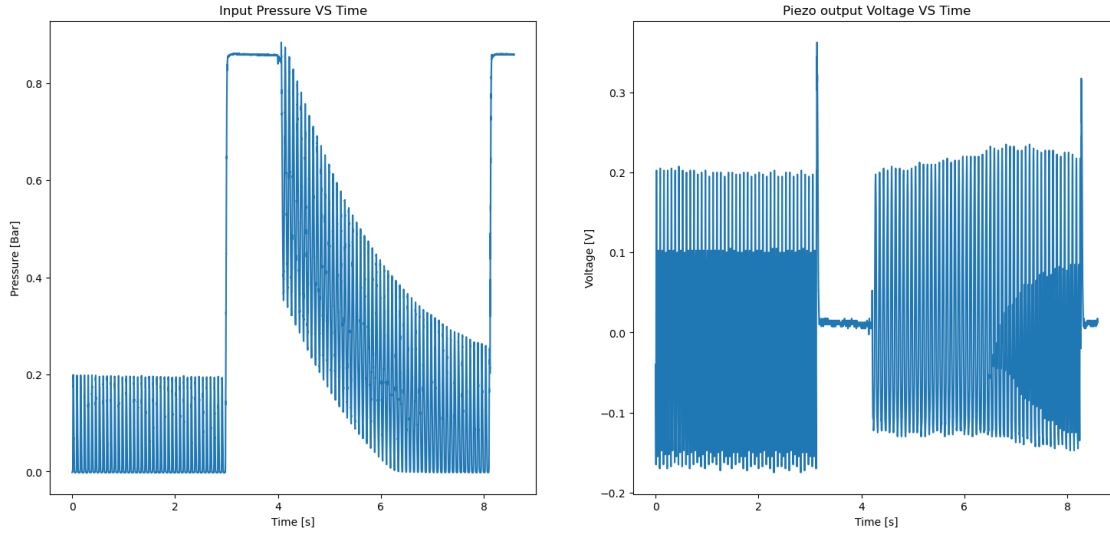
1 PARAMETERS

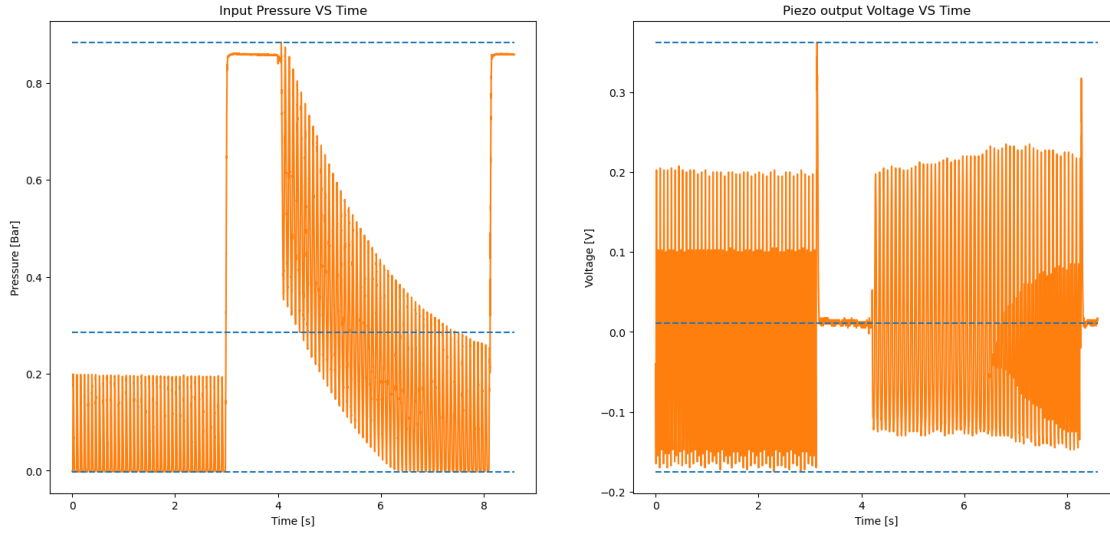
Sample name: ES.PVDF.E9.30m.100nm

	Parameter	Value	Unit
0	Sample name	ES.PVDF.E9.30m.100nm	
1	Measure duration	8.589934592	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1000000.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

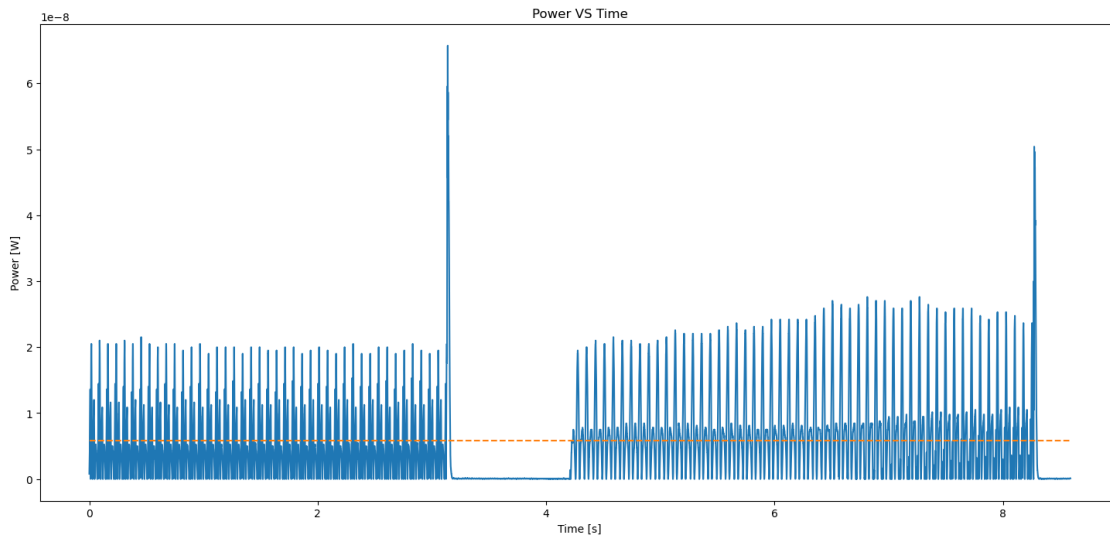
The input frequency is: 0.23 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.10e-03	8.84e-01	8.86e-01	2.86e-01	2.87e-01
1	Voltage [V]	-1.75e-01	3.62e-01	5.37e-01	1.08e-02	8.86e-02

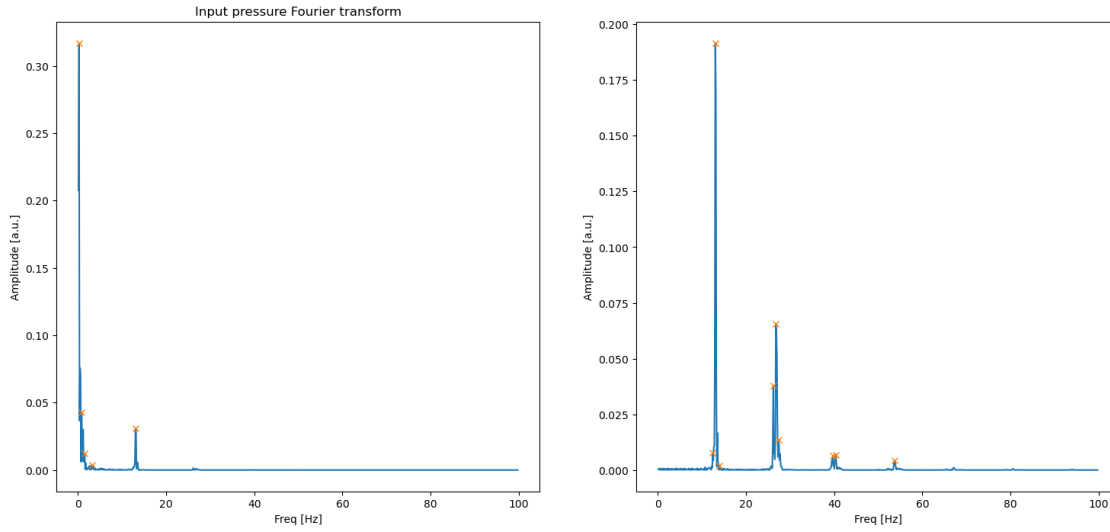
3 POWER



Mean power: 5.86e-09 [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	12.46	0.78
1	13.04	19.16
2	13.97	0.21
3	26.20	3.77
4	26.78	6.55
5	27.36	1.35
6	39.70	0.64
7	40.40	0.67
8	53.67	0.43

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	0.23	31.70
1	0.81	4.31
2	1.51	1.22
3	3.14	0.37
4	13.04	3.07