

Measurements

May 27, 2022

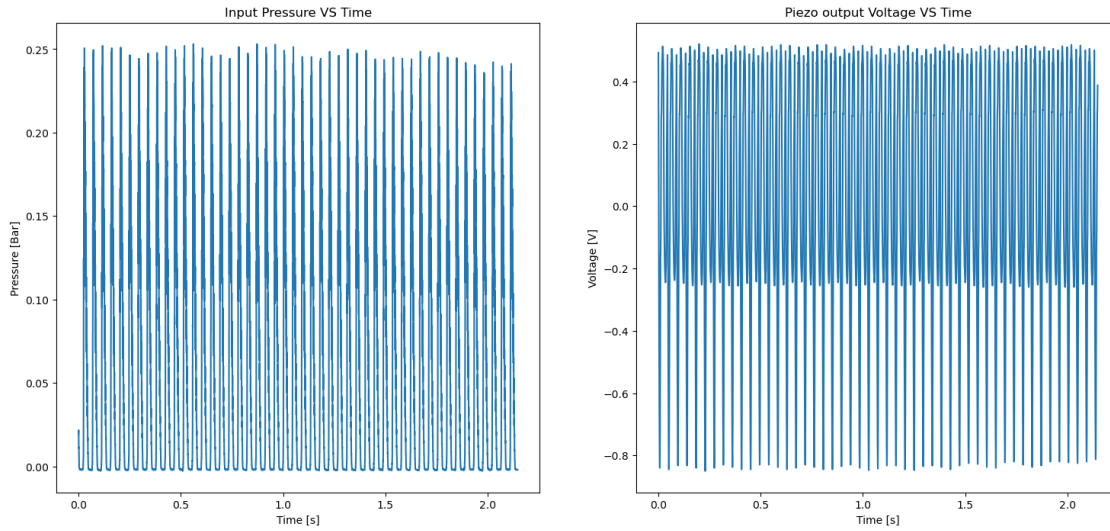
1 PARAMETERS

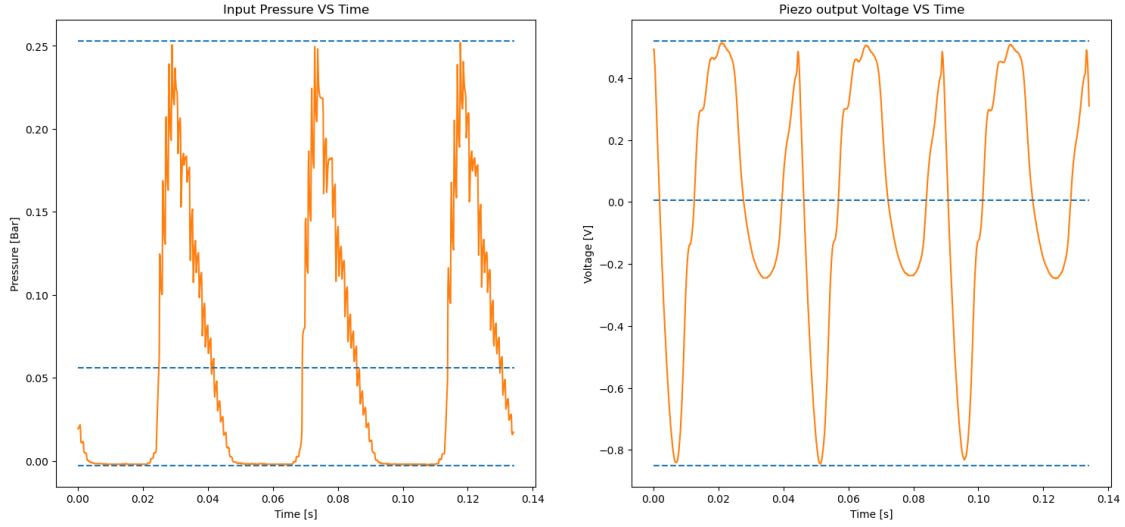
Sample name: PVDF-109-30min

	Parameter	Value	Unit
0	Sample name	PVDF-109-30min	
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

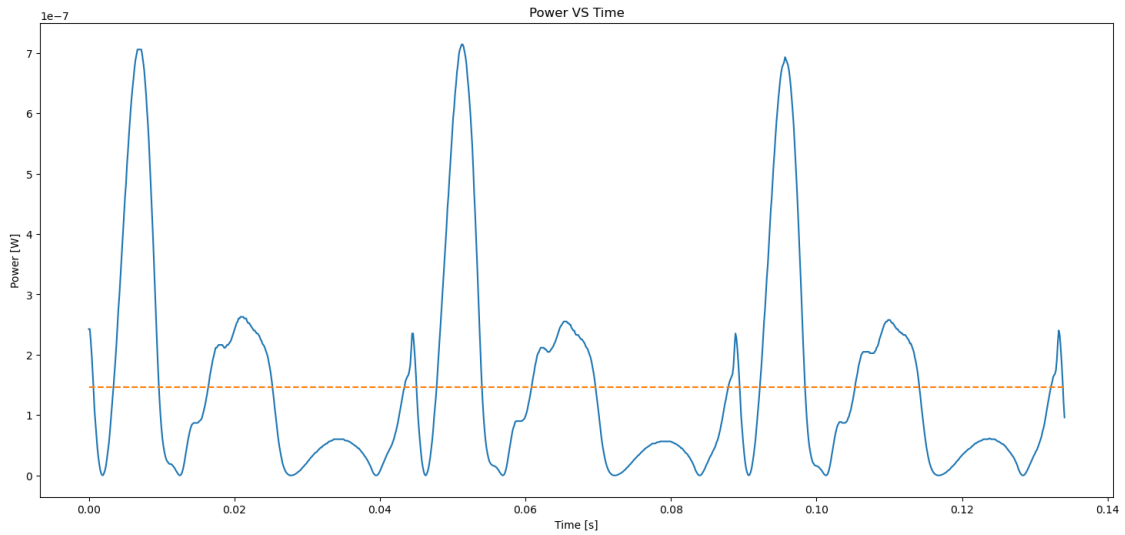
The input frequency is: 22.35 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.80e-03	2.53e-01	2.56e-01	5.62e-02	5.79e-02
1	Voltage [V]	-8.50e-01	5.20e-01	1.37e+00	4.81e-03	3.25e-01

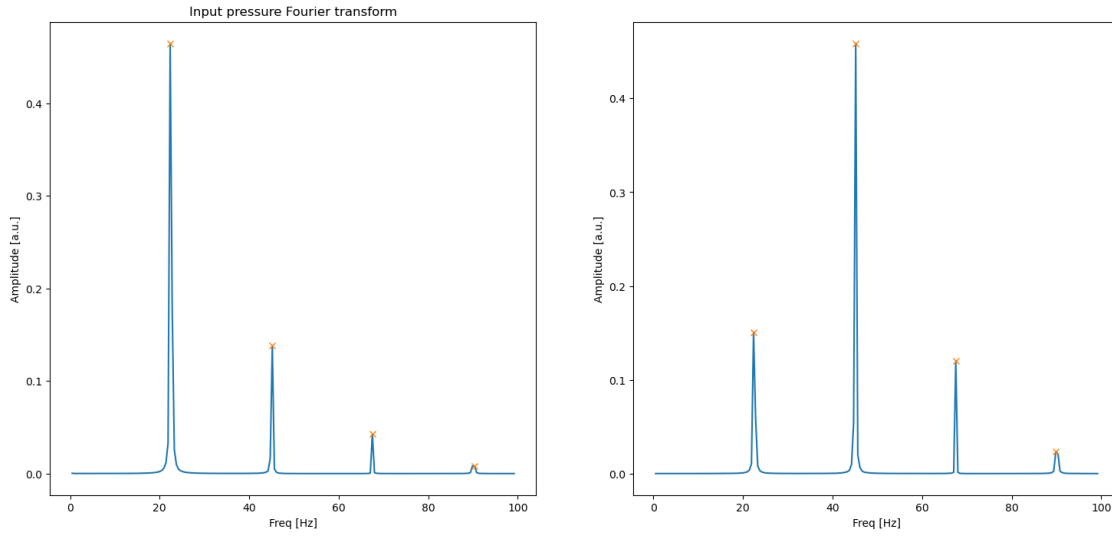
3 POWER



Mean power: 1.47e-07 [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	22.35	15.09
1	45.17	45.86
2	67.53	11.98
3	89.88	2.37

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	22.35	46.48
1	45.17	13.84
2	67.53	4.28
3	90.34	0.82