

Measurements

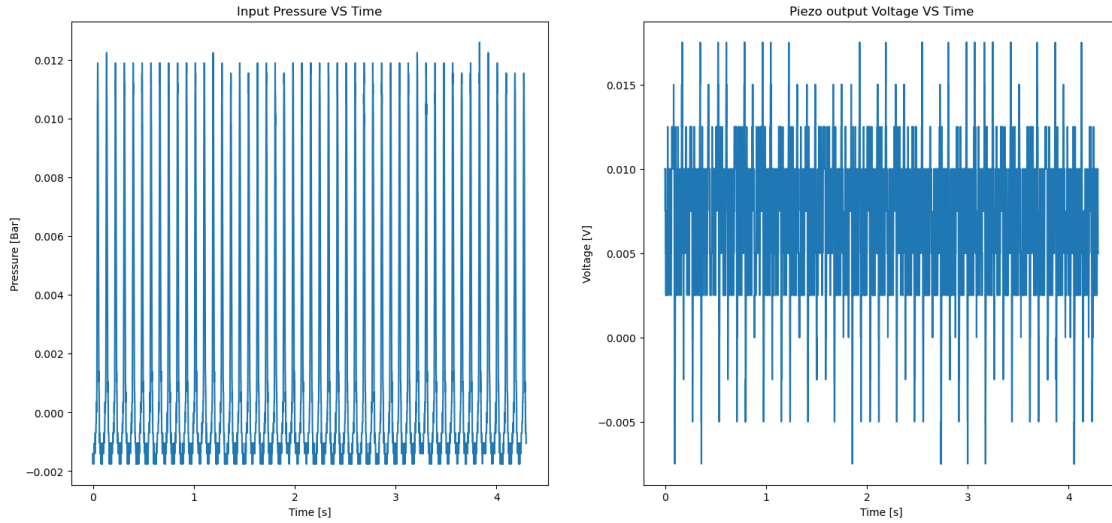
May 13, 2022

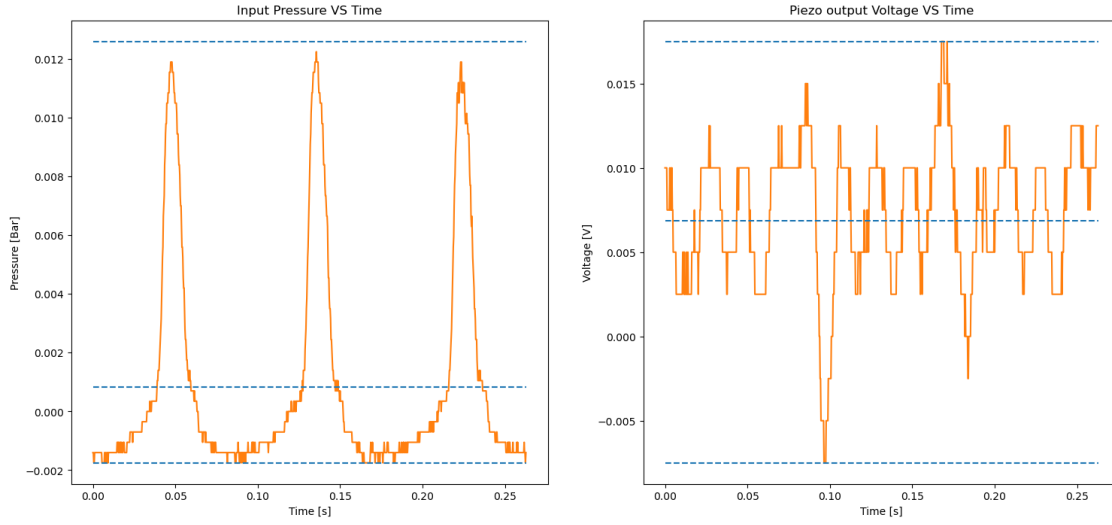
1 PARAMETERS

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

	Parameter	Value	Unit
0	Sample name	ES.PVDF.E9.30m.100nm	
1	Measure duration	4.294967296	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1000000.0	[Ohms]
5	Max Frequency	100.0	[Hz]

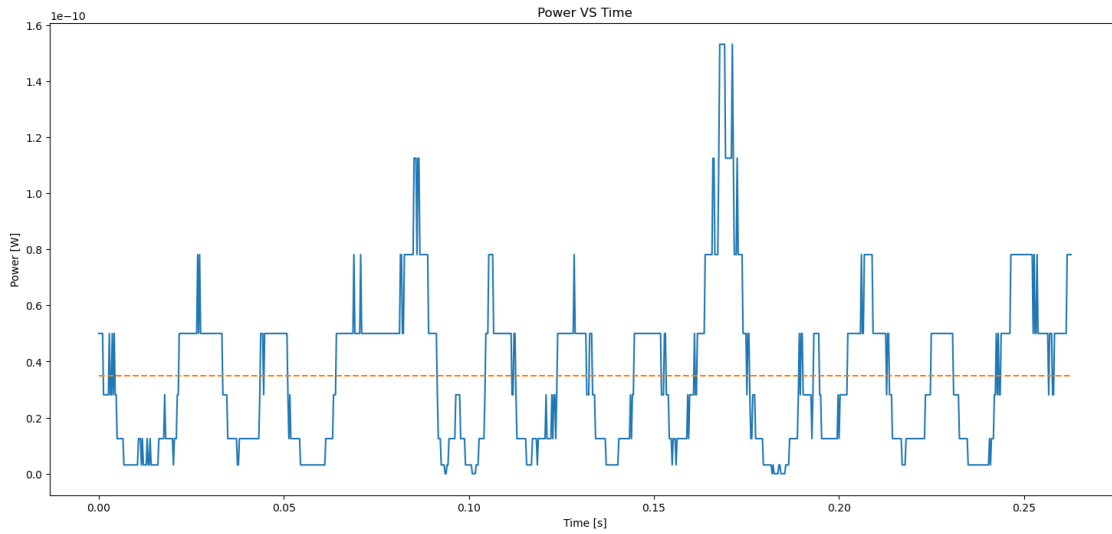
2 PRESSURE AND VOLTAGE MEASUREMENTS





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-1.75e-03	1.26e-02	1.43e-02	8.42e-04	2.33e-03
1	Voltage [V]	-7.50e-03	1.75e-02	2.50e-02	6.86e-03	7.14e-03

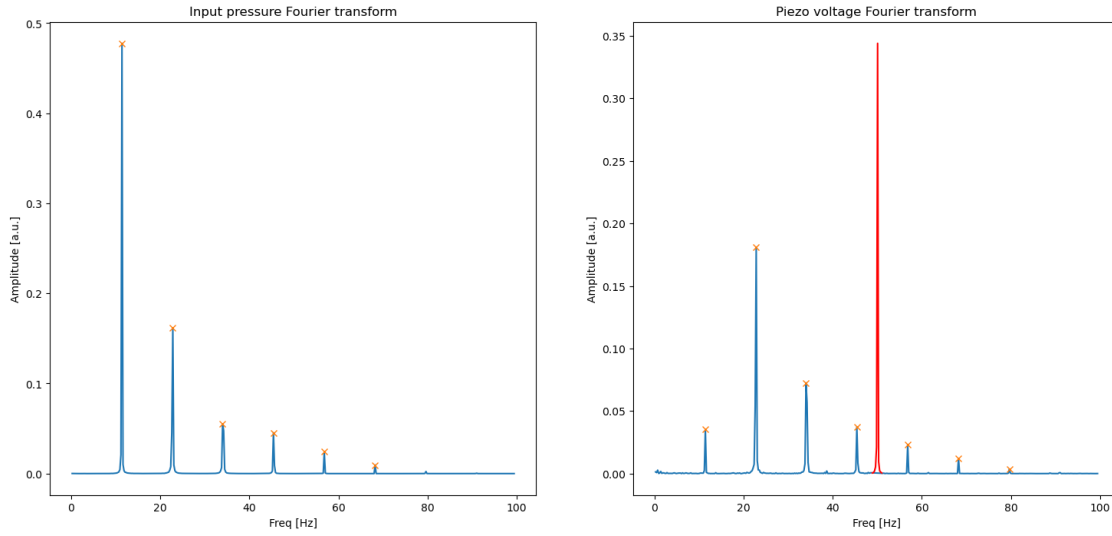
3 POWER



Mean power: 3.49e-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	11.41	3.53
1	22.82	18.11
2	34.00	7.25
3	45.40	3.73
4	56.81	2.31
5	68.22	1.21
6	79.63	0.36

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	11.41	47.76
1	22.82	16.16
2	34.00	5.52
3	45.40	4.52
4	56.81	2.42
5	68.22	0.95