

# Measurements

May 20, 2022

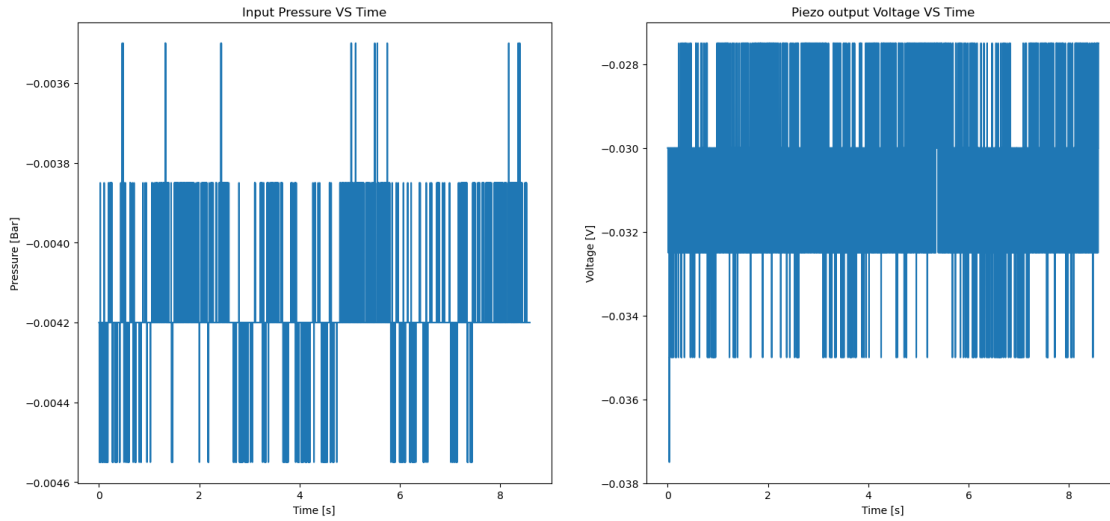
## 1 PARAMETERS

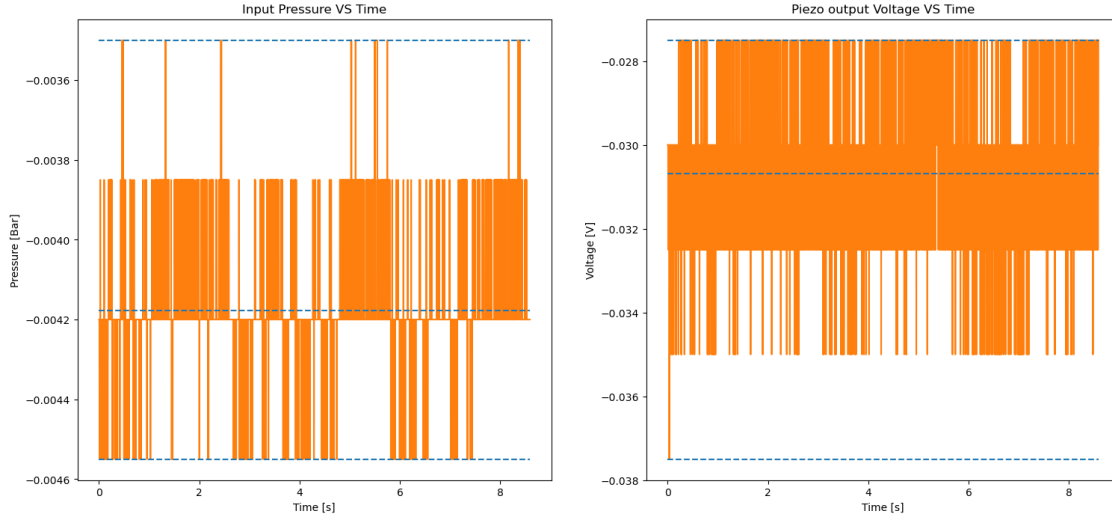
Sample name: ES.PVDF.E9.30m.100nm

	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

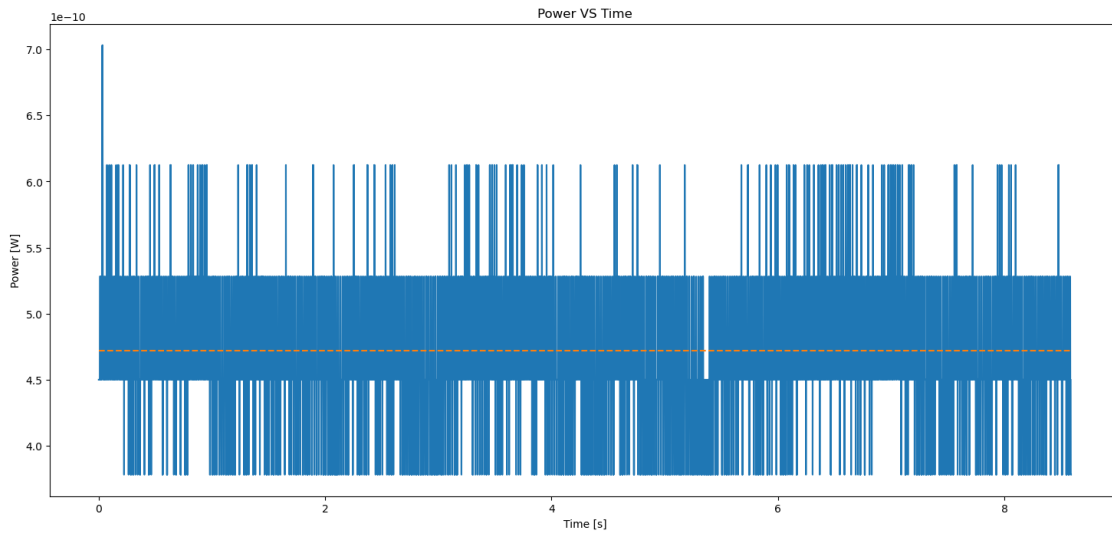
The input frequency is: 0.35 Hz





	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-4.55e-03	-3.50e-03	1.05e-03	-4.18e-03	4.18e-03
1	Voltage [V]	-3.75e-02	-2.75e-02	1.00e-02	-3.07e-02	3.07e-02

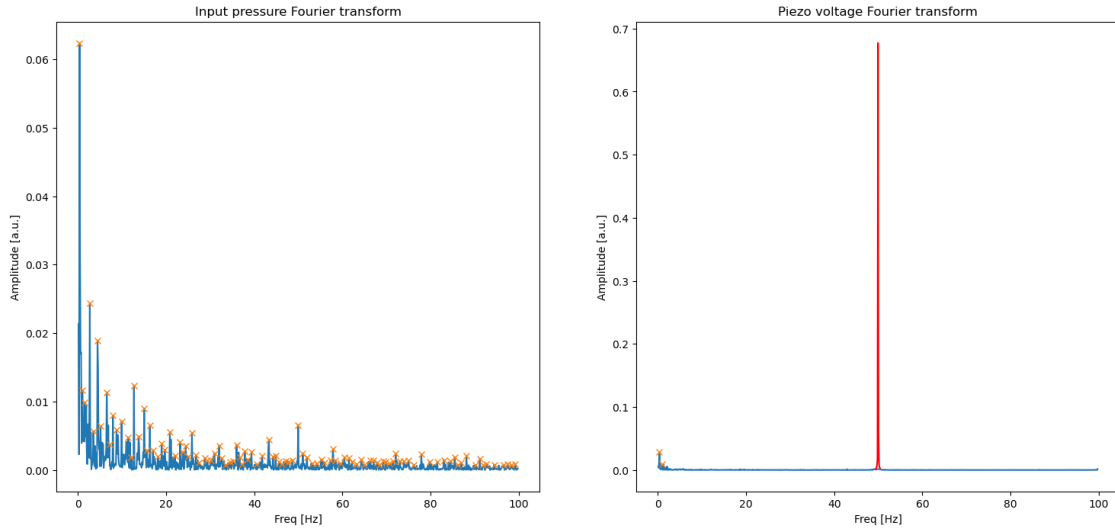
### 3 POWER



Mean power: 4.72e-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	0.35	2.83
1	0.93	0.89



## 4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	0.35	6.24
1	0.93	1.17
2	1.51	0.99
3	2.68	2.44
4	3.49	0.56
5	4.42	1.89
6	5.12	0.64
7	6.52	1.13
8	7.10	0.37
9	7.92	0.80
10	8.73	0.59
11	9.90	0.71
12	11.41	0.48
13	12.11	0.19
14	12.69	1.24
15	13.74	0.49
16	15.02	0.90
17	15.60	0.28
18	16.30	0.65
19	17.00	0.29
20	18.16	0.19
21	18.98	0.38
22	19.68	0.30
23	20.84	0.55
24	22.00	0.21
25	23.17	0.41
26	23.75	0.27
27	24.45	0.35
28	25.03	0.20
29	25.85	0.54
30	26.78	0.22
31	27.36	0.11
32	28.76	0.17
33	29.34	0.14
34	30.15	0.14
35	30.97	0.24
36	32.02	0.36
37	32.60	0.17
38	33.41	0.08
39	34.46	0.12
40	35.16	0.13
41	35.97	0.36
42	36.67	0.18
43	37.26	0.09
44	37.84	0.27
45	38.54	0.16
46	39.35	0.27
47	40.52	0.09
48	41.80	0.21
49	43.31	0.44