Measurements

April 22, 2022

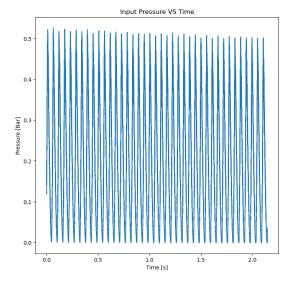
1 PARAMETERS

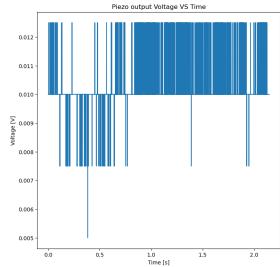
Sample name: AB-211206-085-ZNO

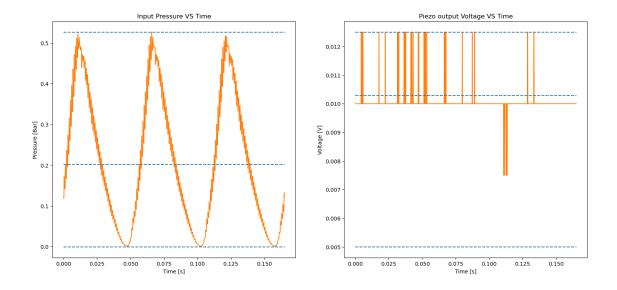
	Parameter	Value	Unit
0	Sample name	AB-211206-085-ZNO	
1	Measure duration	2.147483648	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]
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2 PRESSURE AND VOLTAGE MEASUREMENTS

The input frequency is: 18.16 Hz

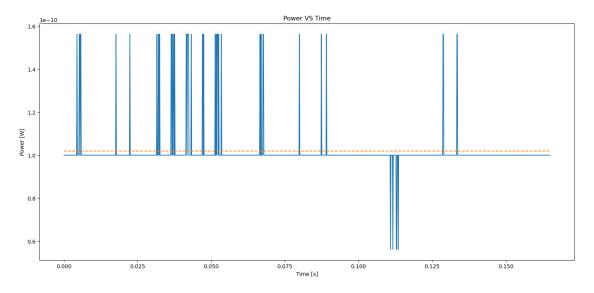






	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-7.00e-04	5.26e-01	5.27e-01	2.01e-01	2.01e-01
1	Voltage [V]	5.00e-03	1.25 e-02	7.50e-03	1.03e-02	1.03e-02

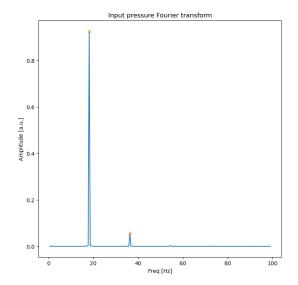
3 POWER

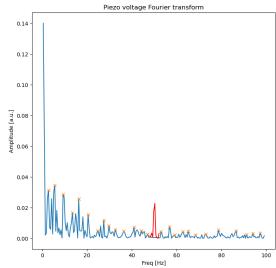


Mean power: 1.02e-10 [W]

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	2.79	3.12
1	5.59	3.45
2	9.31	2.86
3	13.51	1.67
4	16.30	2.57
5	20.49	1.53
6	24.68	0.49
7	27.48	1.18
8	29.80	0.82
9	32.60	0.56
10	36.32	0.47
11	40.98	0.71
12	44.24	0.48
13	47.03	0.28
14	53.09	0.45
15	56.81	0.76
16	59.14	0.21
17	62.87	0.44
18	65.20	0.47
19	68.46	0.23
20	73.11	0.26
21	78.70	0.54
22	86.62	0.49
23	91.28	0.25
24	94.07	0.33
25	97.33	0.34

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	18.16 36.32	92.65 5.55