Measurements

May 27, 2022

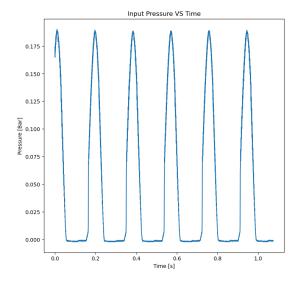
1 PARAMETERS

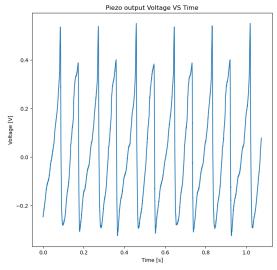
Sample name: ZNO-109-30min

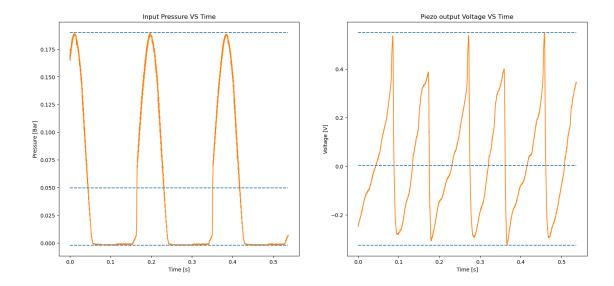
	Parameter	Value	Unit
0	Sample name	ZNO-109-30min	
1	Measure duration	1.073741824	[s]
2	Rload	1000000.0	[Ohms]
3	Nb Periods	3.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

2 PRESSURE AND VOLTAGE MEASUREMENTS

The input frequency is: 5.59 Hz

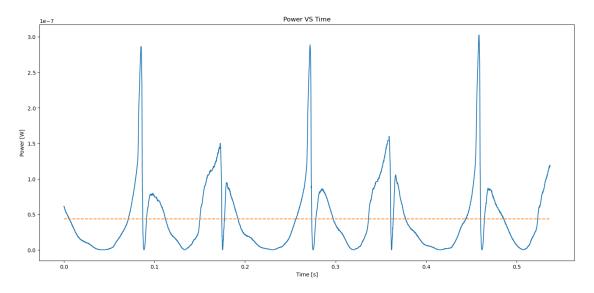






	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-2.10e-03	1.90e-01	1.92e-01	4.96e-02	5.13e-02
1	Voltage [V]	-3.25e-01	5.50 e-01	8.75 e-01	2.95e-03	1.79e-01

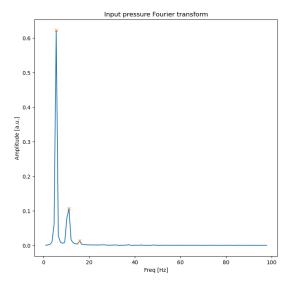
3 POWER

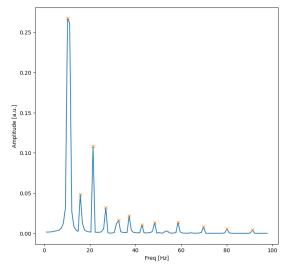


Mean power: 4.38e-08 [W]

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	10.25	26.75
1	15.83	4.83
2	21.42	10.85
3	27.01	3.19
4	32.60	1.62
5	37.26	2.17
6	42.84	1.05
7	48.43	1.32
8	58.68	1.36
9	69.85	0.82
10	80.10	0.57
11	91.28	0.42

4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	5.59	62.21
1	11.18	10.59
2	15.83	1.25