### Measurements

March 16, 2022

#### 1 PARAMETERS

```
HBox(children=(Label(value='Sample name :'), Text(value='test', placeholder='Custom Name')))

HBox(children=(Label(value='Measure duration [s] :'), parameter(value=5.0, placeholder=True, step=0.1)))

HBox(children=(Label(value='Load resistance [Ohms] :'), parameter(value=300000. placeholder=0.0, continuous_update=True, step...)

HBox(children=(Label(value='Nombre of periods [1] :'), parameter(value=5.0, placeholder=0.0) parameter(value=1.0, placeholder=0.0)...

HBox(children=(Label(value='Circuit resistance [Ohms] :'), parameter(value=1.0, placeholder=0.0) parameter(value=1.0, placeholder=0.0) parameter(value=1.0, placeholder=0.0) parameter(value=1.0, placeholder=0.0) parameter(value=1.0, placeholder=0.0) parameter(value=1.0) parameter(value=1.0) parameter(value=1.0) parameters', style=ButtonStyle())

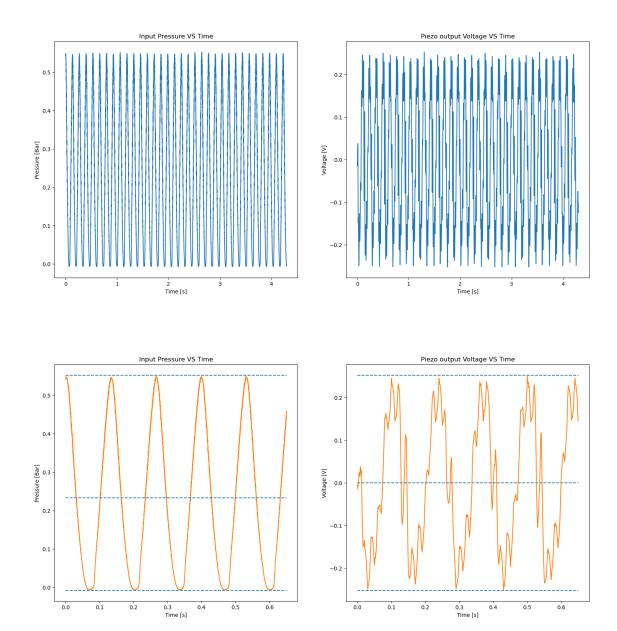
Output()
```

Sample name: test

	Parameter	Value	Unit
0	Sample name	test	
1	Measure duration	5.0	[s]
2	Rload	300000.0	[Ohms]
3	Nb Periods	5.0	[1]
4	R Circuit	1.0	[Ohms]
5	Max Frequency	100.0	[Hz]

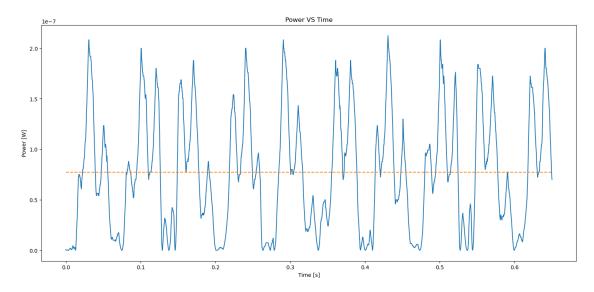
### 2 PRESSURE AND VOLTAGE MEASUREMENTS

The input frequency is: 7.68 Hz



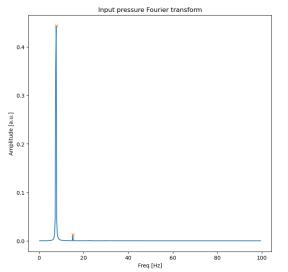
	Variable	Min	Max	Peak to peak	Mean	Mean of absolute value
0	Pressure [Bar]	-7.50e-03	5.52e-01	5.60e-01	2.33e-01	2.34e-01
1	Voltage [V]	-2.53e-01	2.53 e-01	5.05e-01	-9.95e-05	1.36e-01

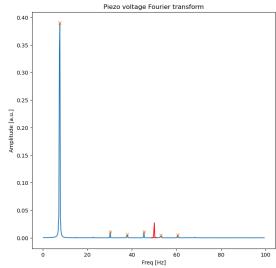
## 3 POWER



Mean power: 7.74e-08 [W]

# 4 FREQUENCY ANALYSIS





## 4.1 Voltage frequency peaks

	Freq [Hz]	Amplitude percentage
0	7.68	39.04
1	30.27	1.09
2	37.95	0.58
3	45.40	1.13
4	53.09	0.45
5	60.54	0.53

### 4.2 Pressure frequency peaks

	Freq [Hz]	Amplitude percentage
0	7.68	44.40
1	15.13	1.27

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