# Measurements

March 15, 2022
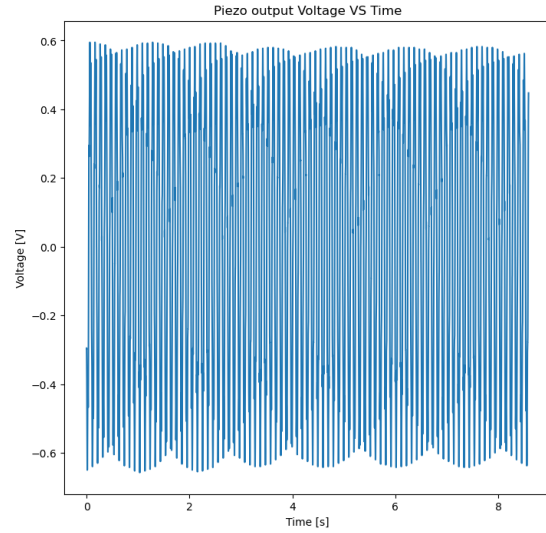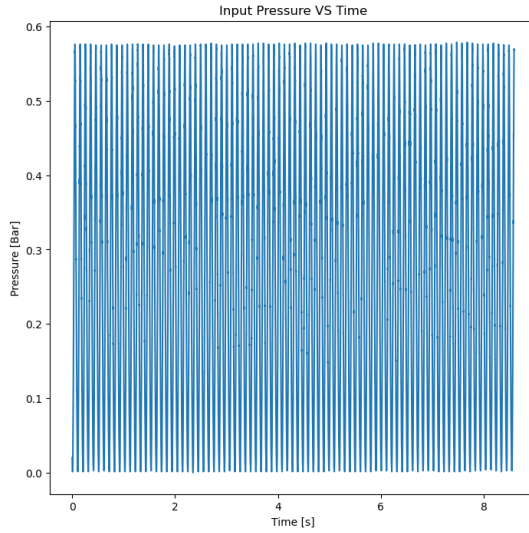
## 1 PARAMETERS
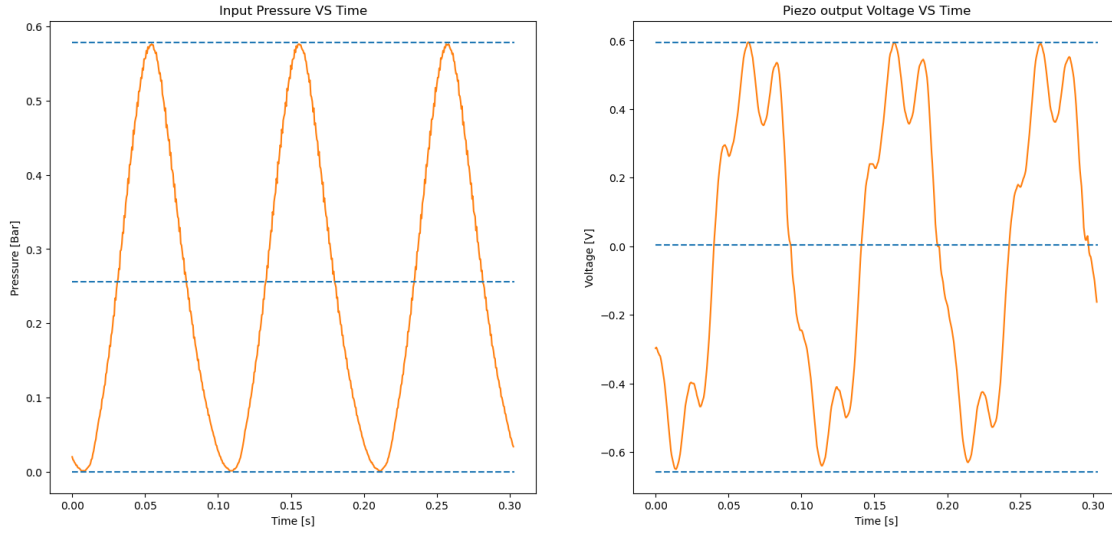
Sample name: ES.PVDF.E0.0m.100nm

|   | Parameter | Value | Unit |
|---|---|---|---|
| 0 | Sample name | ES.PVDF.E0.0m.100nm | |
| 1 | Measure duration | 10.0 | [s] |
| 2 | Rload | 6000000.0 | [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:  9.90 Hz

| | Variable | Min | Max | Peak to peak | Mean | Mean of absolute value |
|---|---|---|---|---|---|---|
| 0 | Pressure [Bar] | 0.00e+00 | 5.79e-01 | 5.79e-01 | 2.56e-01 | 2.56e-01 |
| 1 | Voltage [V] | -6.57e-01 | 5.95e-01 | 1.25e+00 | 4.15e-03 | 3.77e-01 |

# 3 POWER
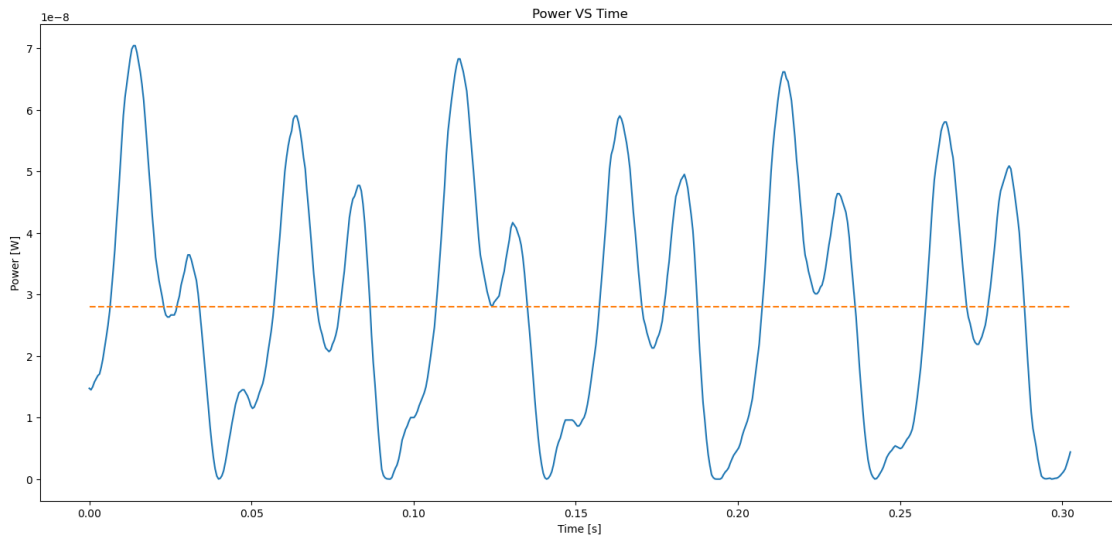


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Mean power: 2.81e-08 [W]
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# 4 FREQUENCY ANALYSIS
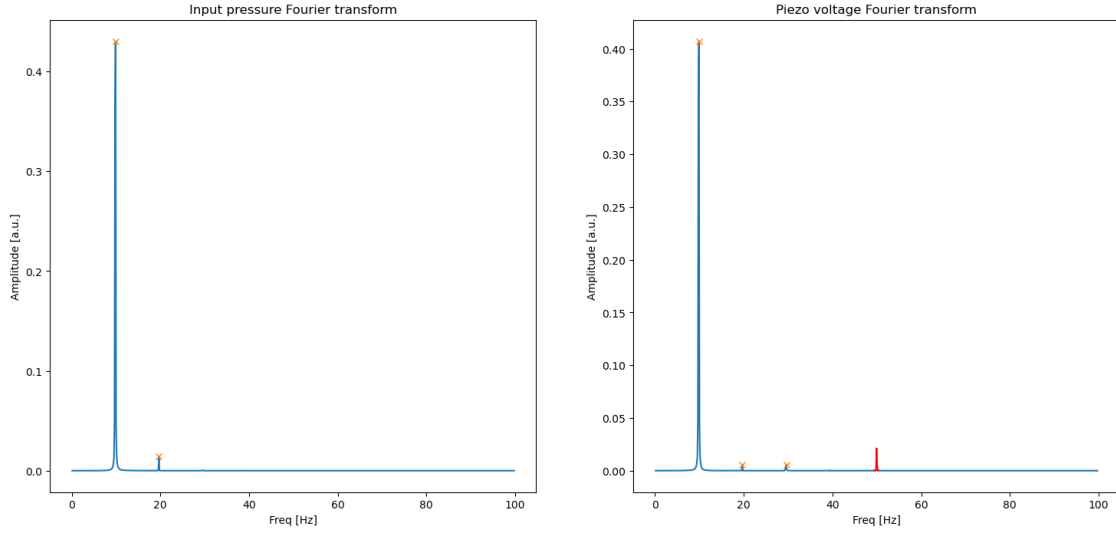


## 4.1 Voltage frequency peaks

|   | Freq [Hz] | Amplitude percentage |
|---|-----------|----------------------|
| 0 | 9.90      | 40.72                |
| 1 | 19.68     | 0.55                 |
| 2 | 29.57     | 0.55                 |

## 4.2 Pressure frequency peaks

|   | Freq [Hz] | Amplitude percentage |
|---|-----------|----------------------|
| 0 | 9.90      | 43.02                |
| 1 | 19.68     | 1.40                 |