|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| INA gain | DAQ range | Load        0 g (empty)      ~1 g (nut)  ~500 g (bottle) | Filter RxC | Value | Noise level |
| (unitless) | [土 V] | [g] | [1/s] | [V] | [V rms] |
| GLOW  1     ≤ GLOW  ≤ 10 | 5 | 0 | (any value from the previous task)  33.9 | 0.00270944 | 0.00013948 |
| 1 | 0.0027187 | 0.000313742 |
| 500 | 0.0074431 | 0.000308716 |
| GMED  50   ≤ GMED  ≤ 100 | 0 | 0.192504 | 0.000273626 |
| 1 | 0.193137 | 0.00027834 |
| 500 | 0.581708 | 0.000296139 |
| GHIGH  500 ≤ GHIGH ≤ 1000 | 0 | 0.191553 | 0.000289563 |
| 1 | 0.192314 | 0.000300409 |
| 500 | 0.578716 | 0.000290748 |

|  |  |
| --- | --- |
| 33.93791225 | 15.33338084 |
| 1422.394071 | 1314.261208 |
| 1337.059638 | 1331.610192 |

The higher the ratio, the better the signal quality.

https://www.techtarget.com/searchnetworking/definition/signal-to-noise-ratio

10k ohm

1k ohm

100 ohm