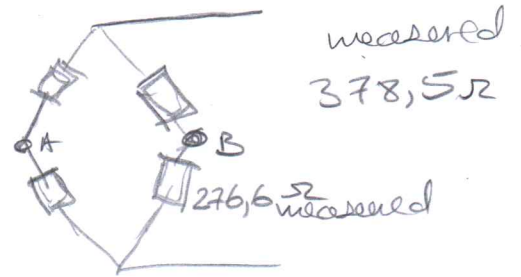


load cell

Alimentado a 4,2 Volt.

$$2 \text{ mV/V} \pm 0,15 \text{ mV/V}$$

$$8,4 \text{ mV} \pm 0,63 \text{ mV}$$



output
resistance
 $R_{AB} = 350 \Omega \pm 3$

$$\frac{4,2 \text{ V}}{2^{24} - 1} \approx \frac{2,5 \cdot 10^{-7} \text{ Volt}}{\text{bit}}$$

$$\frac{8,4 \text{ mV}}{50000 \text{ gram.}} = \frac{1,68 \cdot 10^{-7} \text{ Volt}}{\text{grama.}}$$

$$\frac{8,4 \text{ mV}}{2,5 \cdot 10^{-7} \text{ Volt}} = \boxed{33600} \text{ sem ganho}$$

x 64 amplificacao

$$\frac{8,4 \text{ mV} \times 64}{\boxed{0,5376} \text{ V}}$$

$$\frac{0,5376}{2,5 \cdot 10^{-7}} \rightarrow 2150400 \text{ leituras.}$$

$$\frac{0,5376}{50000} \Rightarrow 1,0752 \cdot 10^{-5} \frac{\text{Volt}}{\text{gram.}}$$

$$\frac{2150400}{50000} \text{ Divisor} = \boxed{43,008}$$

↔ for linear

para dar
leitura em
gramas