09/12/2017
Calculos:

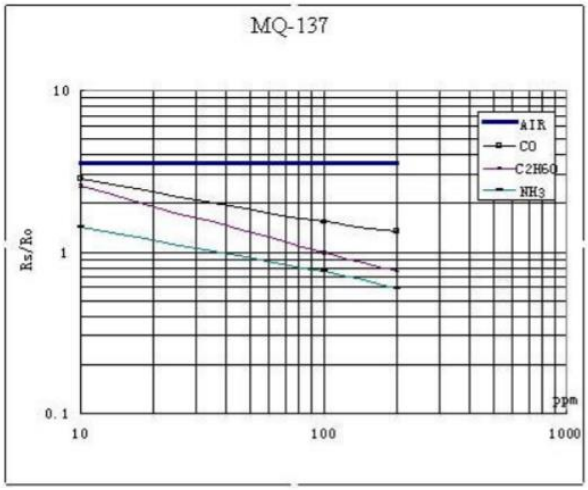

Fig.3 is shows the typical sensitivity characteristics of the MQ-137 for several gases.
in their: Temp: 20℃、
Humidity: 65%、
O_2 concentration 21%
RL=47kΩ
Ro: sensor resistance in the clean air.
Rs :sensor resistance at various concentrations of gases.

y = mx + b

Donde:
y: X valor de
x: X valor de
m: Slope de la linea
b: Y intercepcion

Punto de la grafica (20,1.2) y (40,1)
m = [log(y) - log(y0)] / [log(x) - log(x0)]
m = log(1/1.2) / log(40/20)
m = -0.26303440583

ahora para (30,1.1)

log(y) = m*log(x) + b
b = log(y) - m*log(x)
b = log(1.1) - (-0.26303440583)*log(30)
b = 0.42992639673

Donde:
en el aire
RS / R0 = 3.6
R0 = 2.19