

# Maqueta Sensor Lluvia

No necesitamos ninguna librería especial. Simplemente leer los valores analógicos del Pin 0. En este caso lo visualizamos por el puerto serie :

```
from microbit import *  
while True:  
    val = pin0.read_analog()  
    print("Humedad=", val)  
    sleep(100)
```

Para leer el puerto serie en <https://python.microbit.org/> lo tienes aquí :

The screenshot shows the Python Microbit IDE interface. On the left is a sidebar with navigation options like 'Reference', 'Ideas', 'API', and 'Project'. The main area is split into three panels: a code editor on the left with the Python code for reading an analog sensor, a serial terminal in the middle showing the output 'Humedad= 831' through 'Humedad= 821', and a hardware configuration panel on the right. A red arrow points to the 'Show serial' button in the terminal panel, which is circled in red. A red 'X' is over the 'Show serial' button in the right-hand panel.

## ALARMA LLUVIA

El proyecto pide una alarma. El siguiente código es extraído de

<https://docs.keystudio.com/projects/KS4027-KS4028/en/latest/Python.html#project-11-rains-alarm>

```
from microbit import *  
import music  
display.show(Image.HAPPY)
```

```
pin16.write_digital(0)

while True:
    if pin0.read_analog() > 500:
        music.play("C5:4")
        pin16.write_digital(1)
        sleep(100)
        music.reset()
        pin16.write_digital(0)
        sleep(100)
        music.play("C5:4")
        pin16.write_digital(1)
        sleep(100)
        music.reset()
        pin16.write_digital(0)
        sleep(100)
    else:
        music.reset()
        pin16.write_digital(0)
```

Una vez mojado el sensor, si se seca y queda por debajo de 500 se apaga la alarma:

<https://www.youtube.com/embed/SuW51rT8IRI>

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