

Library taken from

<https://github.com/QuirkyCort/loTy/blob/main/public/extensions/ld2410.py>

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Alternatively this french guy is using a similar or the same library:

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<https://www.youtube.com/watch?v=QDC7T2RiKgo>

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[https://github.com/christianDUCROS/ld2410-human\\_sensor](https://github.com/christianDUCROS/ld2410-human_sensor)

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Arduino edition:

[https://github.com/Oingchun/arduino-lib\\_HLK-LD2450\\_Radar](https://github.com/Oingchun/arduino-lib_HLK-LD2450_Radar)

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MPY: soft reboot

enable config success

UART(1, baudrate=256000, bits=8, parity=None, stop=1, tx=12, rx=13, rts=-1, cts=-1, txbuf=256, rxbuf=256, timeout=1, timeout\_char=1)

enable config success

probleme communication : reponse vide

distance\_gate\_sensitivity\_configuration failure

firmware :V 2 . 4 . 23 10 19 15

MAc Address f7 99 9b 63 f7 92

probleme communication : reponse vide

Distance\_resolution\_setting failure

end config success

-----DETECTION-----

error, frame header is incorrect

pas de présence humaine

error, frame header is incorrect

pas de présence humaine

## Micropython

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## Firmware - once per device

Get <https://github.com/espressif/esptool>

First, erase flash memory from dir `esptool-maser`

```
cd _archive/esptool
esptool.py --port /dev/cu.usbserial-0275EB94 erase_flash
```

if:

```
A fatal error occurred: Could not open /dev/cu.usbserial-0275EB94, the
port is busy or doesn't exist.
([Errno 16] could not open port /dev/cu.usbserial-0275EB94: [Errno 16]
Resource busy: '/dev/cu.usbserial-0275EB94')
```

Unconnect & reconnect, immedietly run the command above

Download generic firmware esp wroom:

<https://micropython.org/download/#esp32> / [https://micropython.org/download/ESP32\\_GENERIC/v1.23.0](https://micropython.org/download/ESP32_GENERIC/v1.23.0) (2024-06-02) .bin

Flash firmware:

```
esptool.py --chip esp32 --port /dev/cu.usbserial-0275EAB2 --baud 460800
write_flash -z 0x1000 ESP32_GENERIC-20240602-v1.23.0.bin
```

## To upload code

in vscode

- pymakr extension install
- "new project" from sidebar
- `connect device` or three dots when hovering over project name `select devices`
- auf blitz klicken (if greyed out, right click three dots `stop script`)
- zum upload auf "upload wolke" klicken beim hovern over device name (nicht rechtsklick im filebrowser)
- After upload, three dots on device, `hard reset device`

*Attention:* When changing the `pymakr.conf` file, its changes only take effect after its uploaded to the board. Right click on the `pymakr.conf` file > "pymakr" > "upload to device" before you upload the whole thing

Death loop exit bzw direkt auf gerät sachen laden

- delete main file directly on the flash memory:
  - pip install rshell & repl
  - `rshell --port /dev/cu.usbserial-0275EAB2`
  - `repl ~ /dev/cu.usbserial-0275EAB2`
  - `ctrl+x = exit`
  - `import os`
  - `os.remove("main.py")`

0275EB94

## Pymakr.conf

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Example:

```
{
  "address": "/dev/cu.usbserial-AB001234",
  "username": "micro",
  "password": "python",
  "sync_folder": "scripts"
}
```

in terminal

```
import os
os.listdir()
os.chdir("libraries")
```

`rx_pin = Pin(13)`

`tx_pin = Pin(12)`

## Changes

`boardled = Pin(37, Pin.OUT)`

`boardled.off()`

`print('-----CONFIGURATION-----')`

`uart1 = UART(1, baudrate = 256000, tx=Pin(12), rx=Pin(13), timeout = 1)`

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## end changes

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