Oxygen sensors in AquaResp

Pyroscience examples
by
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Pyroscience Firesting Firmware >4

For the latest firmware for Firestings, you need to use AquaOxyLog to communicate oxygen measurements to Aquaresp.
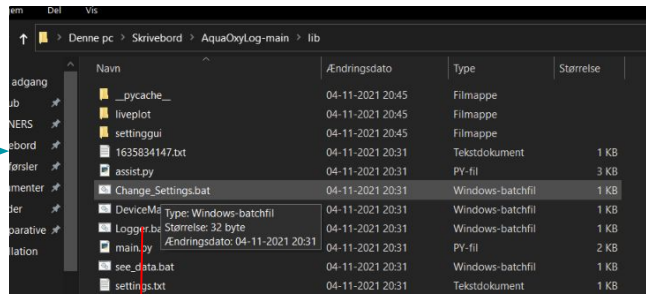
This is easily done by added the path of the AquaResp oxygen folder to OxyLog settings.
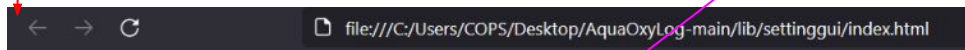
See next slide for images and arrows.

When settings are done. Start OxyLog, then Aquaresp.

OxyLog and AquaResp communication

AquaOxyLog Directory

AquaResp ***OXYGEN*** Directory

1 Open Change_Settings.bat
Can also be opened from the settingsgui folder > open HTML file

Copy Paste Path

2

file:///C:/Users/COPS/Desktop/AquaOxyLog-main/lib/settinggui/index.html

Create settings file for AquaOxyLog

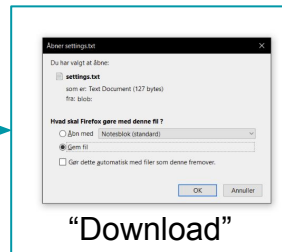This form **does not** show the present settings. It can only create new files

Active channels: 2
Location datafile: C:\Users\[USERNAME]\I
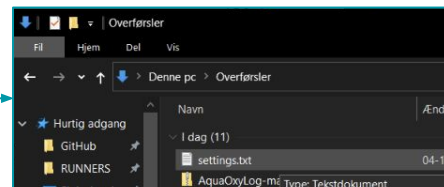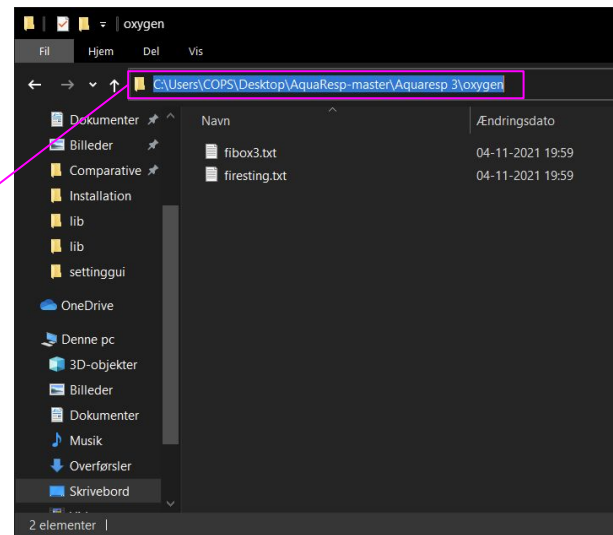Location aquaresp: C:\Users\[USERNAME]\I
Device communication port: COM3
Save data to file

3

Press save

"Download"

Move or copy Settings.txt to OxyLog Directory and REPLACE previous
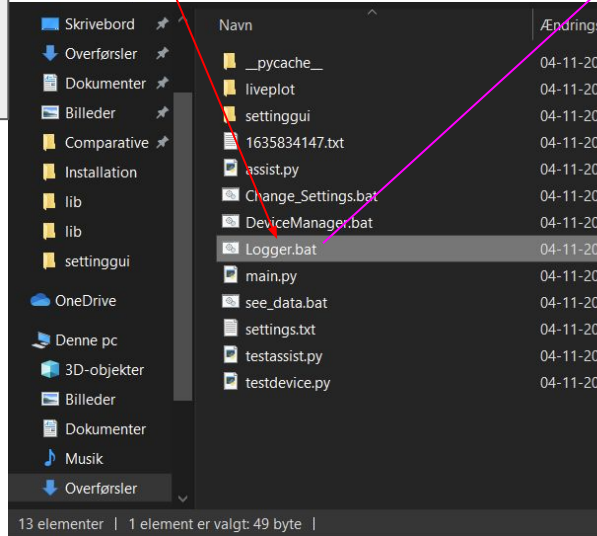
Note

Active channels in OxyLog should match that of AquaResp

Settings can be change via the bat file, but also using the html file in ../settinggui

the settings file should be named "settings.txt" for OxyLog to find it
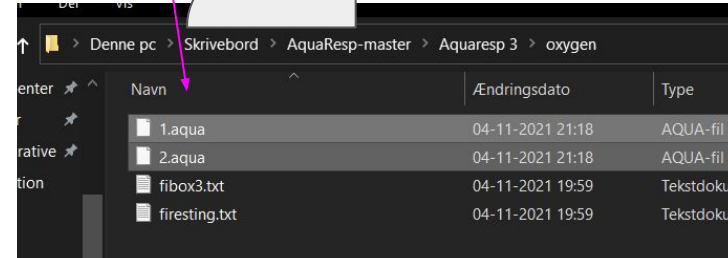
On starting OxyLog

Start Aqua OxyLog

1

```
C:\WINDOWS\system32\cmd.exe
Python was not found; run without arguments to install from the Microsoft Store, or disable this shortcut from Settings
> Manage App Execution Aliases.
C:\Users\COPS\Desktop\
Channel:  1 20.789 1636054888.244424
Channel:  2 21.178 1636054888.9102476
C:\Users\COPS\Desktop\
Channel:  1 20.796 1636054889.6665134
Channel:  2 21.188 1636054890.2653296
C:\Users\COPS\Desktop\
Channel:  1 20.803 1636054891.011121
Channel:  2 21.192 1636054891.6149619
C:\Users\COPS\Desktop\
```
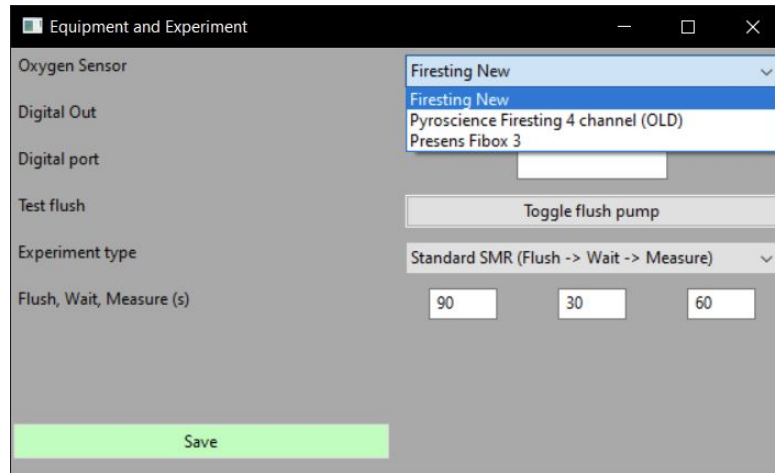
Skrivebord	Navn	Ændrings
Overførsler	__pycache__	04-11-20
Dokumenter	liveplot	04-11-20
Billeder	settinggui	04-11-20
Comparative	1635834147.txt	04-11-20
Installation	assist.py	04-11-20
lib	Change_Settings.bat	04-11-20
lib	DeviceManager.bat	04-11-20
settinggui	Logger.bat	04-11-20
OneDrive	main.py	04-11-20
	see_data.bat	04-11-20
Denne pc	settings.txt	04-11-20
3D-objekter	testassist.py	04-11-20
Billeder	testdevice.py	04-11-20
Dokumenter		
Musik		
Overførsler		

13 elementer | 1 element er valgt: 49 byte |

2

Check AquaResp Oxygen folder

	Denne pc > Skrivebord > AquaResp-master > Aquaresp 3 > oxygen

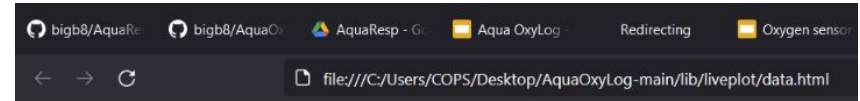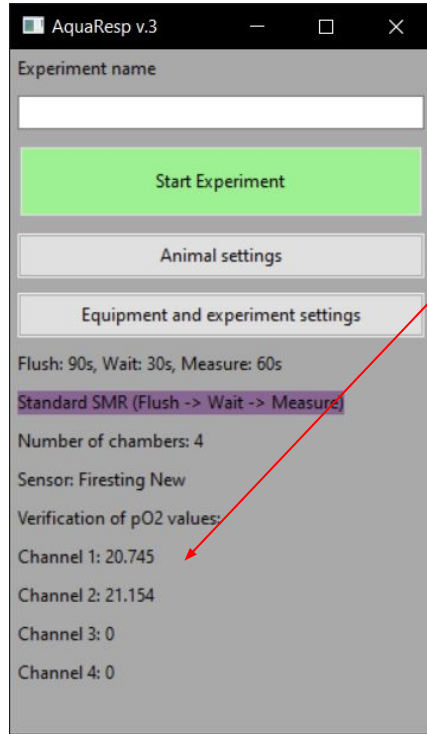| Navn	Ændringsdato	Type
1.aqua	04-11-2021 21:18	AQUA-fil
2.aqua	04-11-2021 21:18	AQUA-fil
fibox3.txt	04-11-2021 19:59	Tekstdoku
firesting.txt	04-11-2021 19:59	Tekstdoku

2 active channels should give 1.aqua and 2.aqua
The format is just a text file. Open in notepad to see contents if
you are interested

Open AquaResp

Open AquaResp. The default choice for a new installation is Firesting New but go to experimental settings. Make sure **Firesting New** is chosen.

Check that measurements are live in AquaResp

Measurements in the html gui on OxyLog are refreshed every 5s. But sampled approx 1s

Firmware < 4 (per nov 2021)

1 Choose Firesting … (OLD)

2 Open Firesting SW and make it save to AquaResp 3/oxygen/firesting.txt

3 Check that AquaResp measurements are live