

## We start with **ws\_purplepair1.php**

This version of the script loads the needed data from the PurpleAir database and needs only a few settings. The script shows only the PM2.5 measurements with different time-periods.

### 1. ATTENTION:

First adapt the settings in ws\_purpleair1.php with your own sensorID

```
$apiPurpleID = 'xxxx'; # your sensor as known at purpleair
```

### 2. Test

2.1 upload the purpleair folder to the main folder of your website.

Often the root for Saratoga, and weather28/ for Leuven

2.2 Use the test-program first

www.yourwebsite.xx/mainfolder/purpleair/\_test1.php

This script is stand-alone and can be used in an iFrame. It is not dependent on a template.

All error messages are switched on by the test-program.

The script reads your data from the PurpleAir database.

If your sensor is not uploading yet, wait a few hours and test again.

Normally all your data including colors will be shown, and a copy of your data is stored in the purpleair/cache/ folder in a file with your sensor number ws\_purpleair1\_x\_7302 where the x stands for average of both sensors and the number is your sensor ID

Period	Concentration	Index	Classification
Real-Time	11.93 ug/m3	50	Good
Currently	11.41 ug/m3	48	Good
Last 30 min	11.62 ug/m3	49	Good
Last hour	12.97 ug/m3	53	Moderate
Last 6 hours	15 ug/m3	57	Moderate
Last 24 hours	12 ug/m3	50	Moderate
Last 7 days	13.2 ug/m3	53	Moderate

Latest measurement from: 14:39 Sensor: Purpleair #7302

Classification	Index	pm2.5	The health effects should be based on 24 hours average values only.
Good	1-50	< 12 µg/m <sup>3</sup>	Air quality is considered satisfactory, and air pollution poses little or no risk
Moderate	51-100	< 35.4 µg/m <sup>3</sup>	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101-150	< 55.4 µg/m <sup>3</sup>	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151-200	< 150.4 µg/m <sup>3</sup>	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201-300	< 250.4 µg/m <sup>3</sup>	Health warnings of emergency conditions. The entire population is more likely to be affected
Hazardous	301-500	> 250.4 µg/m <sup>3</sup>	Health alert: everyone may experience more serious health effects

Visit these websites [Regional Air Quality site](#) & [Purpleair sensors](#) where you can find a wealth of information

### 3. More installation

Now you can adapt the settings for your own preferences, such as date formats aso.

When you are finished with testing, you should run the script using its own name **ws\_purpleair1.php**

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The **ws\_purpleair2.php** script is more complex but has more possibilities.

**This stations Air quality measurements (More) (Extra Page)**

Classification	Period	Concentration	Index	Particle
Good	now	4.2 ug/m3	4	pm10
Good	now	3.89 ug/m3	17	pm2.5
-	now	2.98 ug/m3	-	pm1
Good	24h avg.	7 ug/m3	7	pm10
Good	24h avg.	7 ug/m3	30	pm2.5
-	24h avg.	5 ug/m3	-	pm1

en: uploaded from sensor  
nl: gegevens van de sensor

en: calculated values  
nl: berekend in script

Latest measurement from: 10-07-2018 14:57 (21.1%/52%) Sensor: Purpleair #2546

Classification	Index	pm10	pm2.5	
Good	1-50	< 54 µg/m <sup>3</sup>	< 12 µg/m <sup>3</sup>	The health effects should be based on 24 hours average values only.
Moderate	51-100	< 154 µg/m <sup>3</sup>	< 35.4 µg/m <sup>3</sup>	Air quality is generally satisfactory, and air pollution poses little or no risk
Unhealthy for Sensitive Groups	101-150	< 254 µg/m <sup>3</sup>	< 55.4 µg/m <sup>3</sup>	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	151-200	< 354 µg/m <sup>3</sup>	< 150.4 µg/m <sup>3</sup>	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201-300	< 424 µg/m <sup>3</sup>	< 250.4 µg/m <sup>3</sup>	Health warnings of emergency conditions. The entire population is more likely to be affected
Hazardous	301-500	> 424 µg/m <sup>3</sup>	> 250.4 µg/m <sup>3</sup>	Health alert: everyone may experience more serious health effects

en: date time last upload  
nl: datum/tijd laatste oplaad

temp/hum/pressure

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To use this script we have to instruct our sensor to upload our data to our own website/server

## 4. Upload our data

### 4.1 Move script to the receiving location

You have to copy the **sensorpurple2.php** script from the purpleair folder to

=> the final location on your server,

==> often the root, or for the Leuven-Template weather28/

### 4.2. Adapt the sensor settings

Find the latest mail you received from [register@purpleair.com](mailto:register@purpleair.com)

This mail is sent every time you change the settings of the sensor.

Login at <https://www.purpleair.com/> and type all settings in the “install” menu at

<https://www.purpleair.com/register>, using all values as you did last time , use the mail for that.

Nearly at the bottom you arrive at **Data Processor #2**

Select “Custom”

At the Key 3 field you enter the exact URL <http://www.website.com/sensorpurple2.php>

Key4 you type user:password and Method you leave “Post” as it is

Leave all other fields as they are and press “Register”. You will receive a mail with the new settings.

Data Provider #2: Custom

Data Provider #2 URL: <http://www.website.com/sensorpurple2.php> Data Provider #2 HEADERS: user:password

Data Provider #2 METHOD: POST

### 4.3 Change the ws\_purpleair2.php script

Adjust the setting towards the data folder where sensorpurple2.php will store the data

```
$useOwnDir = './data/'; // relatief adres alles in de hoofdmap
```

### 4.4. Test [www.uwwebsite.xx/hoofdmap/purpleair/test2.php](http://www.uwwebsite.xx/hoofdmap/purpleair/test2.php)

## 5. Leuven-template install

If all steps work OK

**5.1 Copy** (not move) the scripts to your own special script folder weatherxx/\_my\_scripts/:

my\_AqhiPurple2Dash.php

my\_AqhiPurple2Page.php

ws\_purpleair1.php or ws\_purpleair2.php

ws\_purple\_langDE.php

ws\_purple\_langEN.php

ws\_purple\_langFR.php

ws\_purple\_langNL.php

### 5.2 Check file locations

Adapt in ws\_purpleair1.php / ws\_purpleair2.php the location,

If you use weather28/ the setting ./data/ is already correct

### 5.3 wsMenuData.xml

```
<item nr      = "mnu_aqhi_purple"  
      caption = "put-your-own-tekst-here"  
      link    = "_my_scripts/my_AqhiPurplePage.php" />
```

### 5.4 wsStartPage.php

In this example replace xxxx with a not used number

#### 5.4.1 At the top

```
$dashboard[] = 'my_component_XXXX'; // AQ purpleair
```

**5.4.2 At the bottom**, before the last }, use the same number as above

```
if ($dashboard[$iDash] == 'my_component_XXXX') {  
    $script = '_my_scripts/my_AqhiPurpleDash.php';  
    if (is_file($script) ) {include $script;}  
    continue; }  
}
```

## 6. Saratoga template

If all works OK:

**6.1 Copy wxAqPurple.php** to the main folder of the template.

5.2 Adapt your menu

## 7. Stand-alone

If \_test1.php or \_test2.php works correctly, you can integrate the ws\_purpleair?.php script in your own website..