

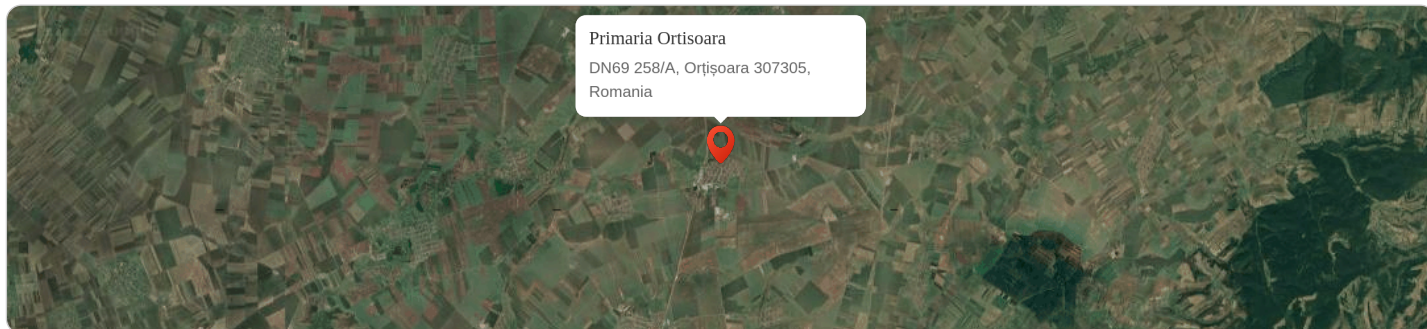
Primaria Ortisoara

MONTHLY AIR-QUALITY REPORT

Timp de la: **01/11/2025, 00:00**
Timp până la: **30/11/2025, 23:59**

Numele dispozitivului: **Primaria Ortisoara**
Locația dispozitivului: **DN69 258/A, Orțișoara 307305, Romania**

Parametrii: **EAQI , NO₂ , O₃ , SO₂ , PM_{2.5} , PM₁₀ , Wind Speed , Wind Direction , CO , R. Humidity , PM₁ , PM₁₀₀ , Pressure , Temperature**



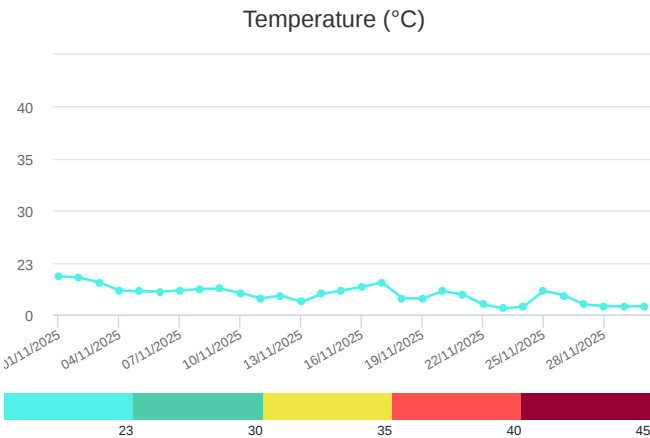
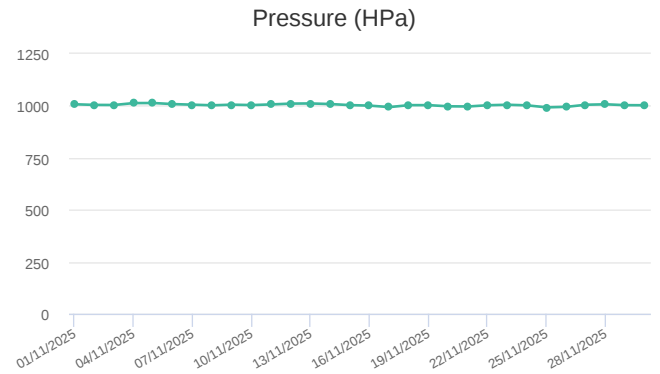
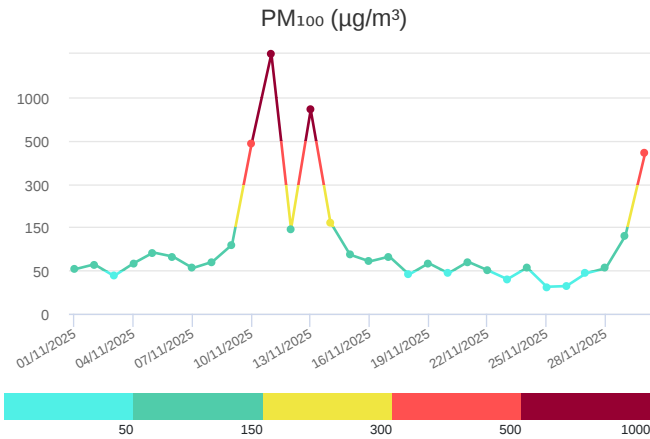
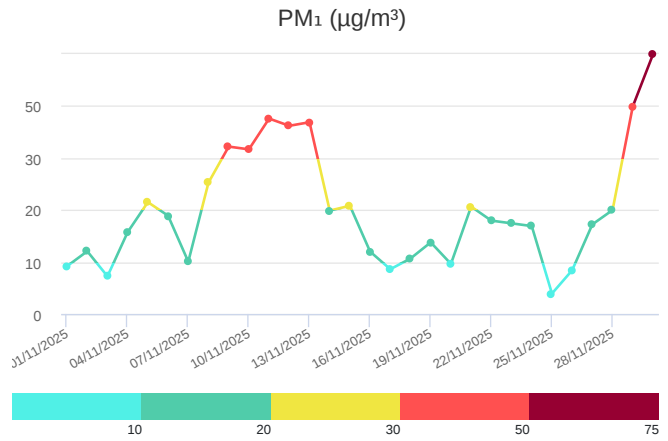
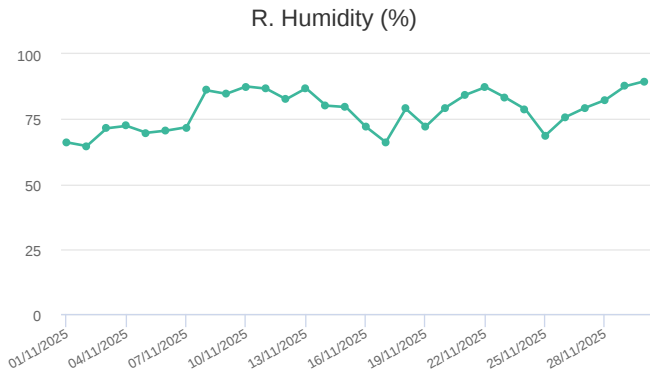
Media indicelui de calitate al aerului (ICA): **265**

Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

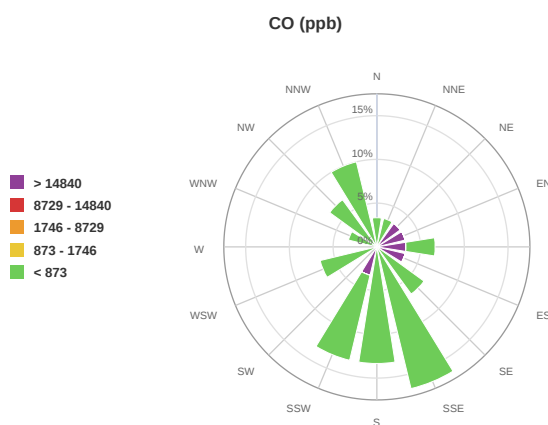
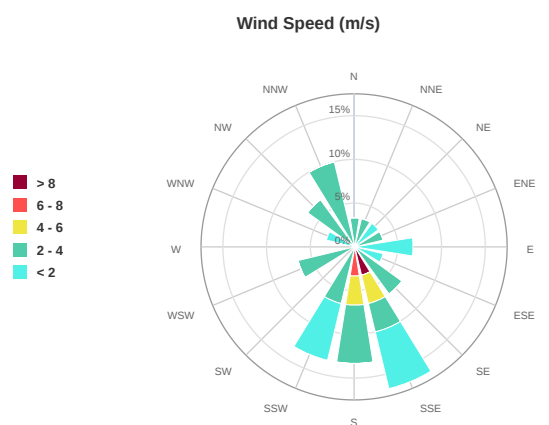
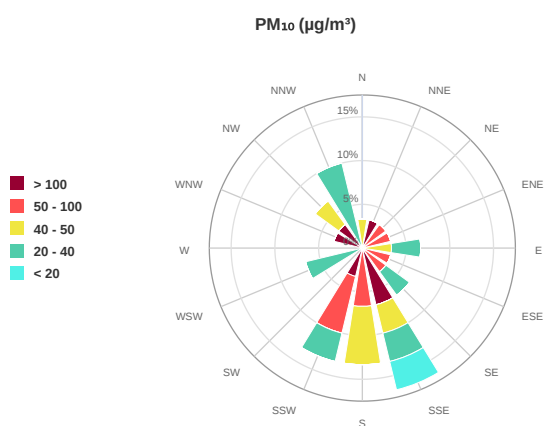
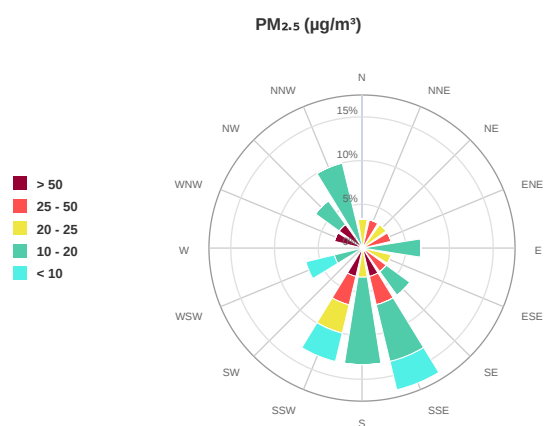
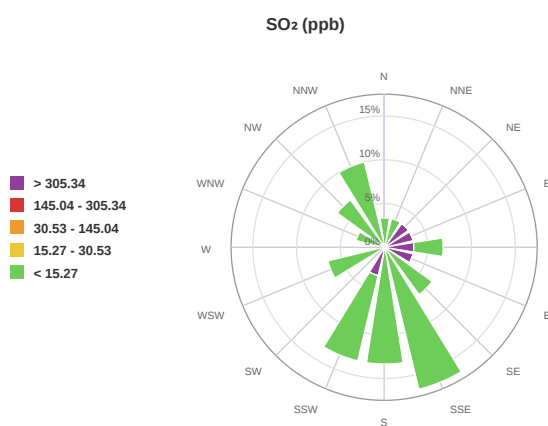
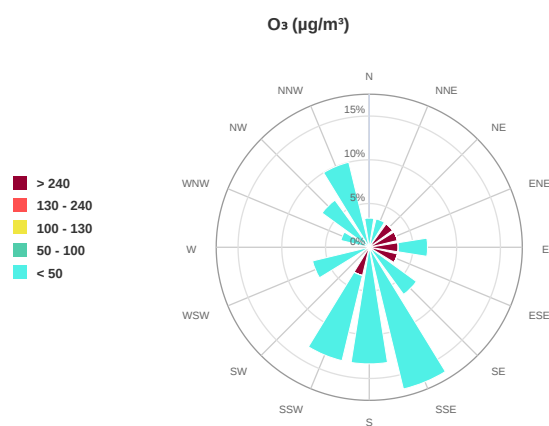
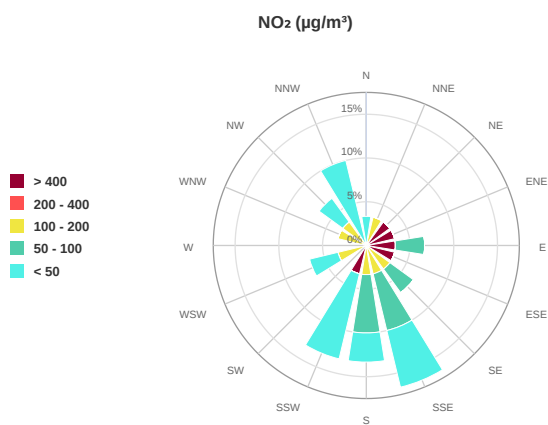
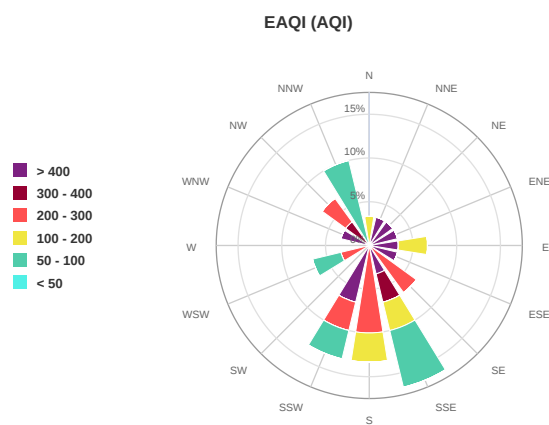
	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
Average	265	88.88	0	0	28.36	82.51
Maximum	420	192.88	38.39	3.56	132.85	357.78
Date	11/11/2025	12/11/2025	25/11/2025	30/11/2025	30/11/2025	11/11/2025
Minimum	53	38.36	0	0	5.12	17.41
Date	25/11/2025	23/11/2025	01/11/2025	01/11/2025	25/11/2025	25/11/2025

Prezentare generală zilnică: Alți parametri

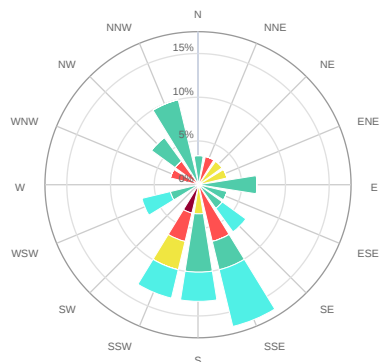
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ μg/m ³	PM ₁₀₀ μg/m ³	Pressure hPa	Temperature °C
Average	0.93	178.06	100	343.72	78.19	22.05	157.37	1003.93	8.92
Maximum	9.1	166.06	100	405.23	89.57	74.81	1083.43	1013.35	16.92
Date	25/11/2025	25/11/2025	01/11/2025	30/11/2025	30/11/2025	30/11/2025	11/11/2025	05/11/2025	01/11/2025
Minimum	1.03	87.16	100	290.84	64.6	3.92	31.14	992.46	2.7
Date	19/11/2025	19/11/2025	01/11/2025	03/11/2025	02/11/2025	25/11/2025	25/11/2025	25/11/2025	23/11/2025



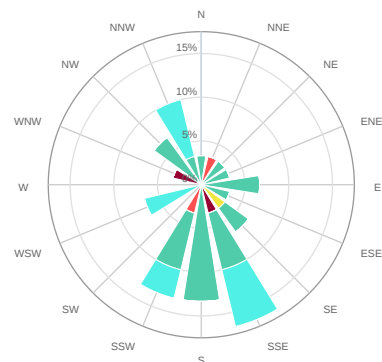
Weekly Average



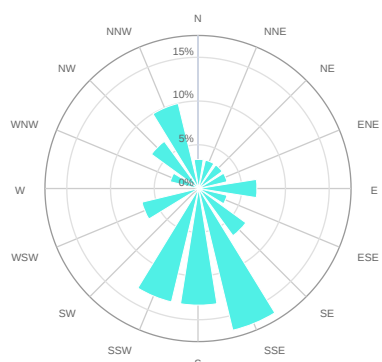
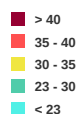
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 13/11/2025, 23:59 **EAQI Consistently Reaches Extremely Poor Levels:** The EAQI reached 'Extremely Poor' levels (401-420) on multiple days, indicating a severe air quality issue. The 'Extremely Poor' values are consistent for the first two weeks
- 13/11/2025, 23:59 **NO₂ Levels Frequently in Extremely Poor Range:** NO₂ concentrations frequently exceeded 180 µg/m³, indicating 'Extremely Poor' air quality based on NO₂ levels alone. The pollutant values recorded are consistently high.
- 13/11/2025, 23:59 **Ozone Levels Consistently at Zero During Poor EAQI Days:** O₃ levels are consistently recorded at 0 µg/m³ during periods with 'Extremely Poor' EAQI, suggesting an inverse relationship or measurement issue.
- 30/11/2025, 23:59 **SO₂ Levels Consistently Good Throughout the Month:** SO₂ concentrations remained within the 'Good' range (0-38 ppb) throughout the entire period, indicating minimal SO₂ pollution.
- 30/11/2025, 23:59 **High PM_{2.5} Concentrations Contribute to Poor Air Quality:** PM_{2.5} levels frequently exceeded 25 µg/m³, contributing to 'Poor' and 'Extremely Poor' air quality. The highest recorded PM_{2.5} value is 132.85 µg/m³.
- 30/11/2025, 23:59 **PM₁₀ Levels Often in Poor to Extremely Poor Range:** PM₁₀ concentrations fluctuated, often reaching 'Poor' (50-100 µg/m³) and 'Extremely Poor' (>150 µg/m³) levels, impacting overall air quality.
- 30/11/2025, 23:59 **Relative Humidity Appears High Across All Readings:** The relative humidity is consistently high, generally above 60%, which might influence the dispersion or formation of pollutants. It ranges from 64.6% to 89.57%.
- 30/11/2025, 23:59 **Wind Speed Variation and Direction:** Wind speed varies between 1.03 m/s and 9.1 m/s. Wind direction fluctuates significantly, with no clear dominant direction impacting pollution dispersion.
- 30/11/2025, 23:59 **Temperature Fluctuations:** Temperature varied between 2.7°C and 16.92°C during the month, potentially affecting the formation and dispersion of certain pollutants.
- 30/11/2025, 23:59 **Air Quality Improves in the Second Half of November:** After November 13, the EAQI values indicate that the air quality transitions from 'Extremely Poor' to 'Poor', 'Moderate' and 'Fair' categories.
- 30/11/2025, 23:59 **CO Levels Relatively High:** CO levels range from 290 ppb to 405 ppb, indicating a significant source of carbon monoxide emissions in the area. The highest value coincides with extremely poor EAQI.
- 30/11/2025, 23:59 **EAQI and AQI(AQI) Values are Identical:** The columns 'EAQI' and 'AQI(AQI)' have identical values, which suggests redundancy or a data duplication issue.
- 13/11/2025, 23:59 **PM₁₀₀ Highest during Extremely Poor Readings:** PM₁₀₀ values correlate with the EAQI; highest levels of PM₁₀₀ are noted during periods marked 'Extremely Poor'. The peak value reaches 1083.43 µg/m³.
- 09/11/2025, 23:59 **Data Gaps in the Middle of the Month:** There are rows with missing EAQI and AQI category values from 2025-11-05 to 2025-11-09, indicating potential data collection or reporting issues.
- 11/11/2025, 23:59 **Highest EAQI Value Recorded on Nov 11:** The highest EAQI value of 420, categorized as 'Extremely Poor', was recorded on November 11th, coinciding with high PM₁₀ values.
- 23/11/2025, 23:59 **Lowest Temperature Correlates with Improved Air Quality:** The lowest temperature of 2.7°C was recorded on Nov 23, coinciding with 'Fair' air quality. This could point to an inverse relation.
- 14/11/2025, 23:59 **Inconsistent Pollution Patterns:** While PM₁₀ often tracks with EAQI, on Nov 14th, PM₁₀ is high while EAQI is only poor. This suggests a complex pollutant mixture.
- 30/11/2025, 23:59 **PM₁ Appears Related to PM_{2.5}:** PM₁ levels seem to be related to PM_{2.5} levels, with PM₁ contributing a substantial amount to PM_{2.5} pollution.
- 30/11/2025, 23:59 **Battery Percentage Always 100%:** The battery percentage is consistently at 100%, raising the question of whether it's a fixed value or an indicator issue.
- 30/11/2025, 23:59 **Air Pressure Consistent Throughout the Month:** Air pressure remained relatively stable throughout the month, ranging from 992.46 hPa to 1013.35 hPa. Air Pressure is independent to the AQI Values.
- 25/11/2025, 23:59 **PM_{2.5} Dropped Significantly on November 25th:** The PM_{2.5} concentration recorded a notable drop on November 25th, falling to 5.12 µg/m³, which is a Good AQI Category
- 27/11/2025, 23:59 **EAQI values drop to Fair AQI category:** The AQI category has dropped to Fair near the end of the month, implying better air quality
- 30/11/2025, 23:59 **O₃ values never increase:** The O₃ values never show a recorded increase during the month. This could imply a lack of Ozone present in the atmosphere
- 30/11/2025, 23:59 **SO₂ levels are almost always zero:** There is hardly any SO₂ presence reported during the month. The SO₂ levels range from 0 to 3.56 ppb.
- 30/11/2025, 23:59 **PM₁₀₀ values are high:** PM₁₀₀ values are reported on the higher end. This would imply that there are many industrial operations in the area.
- 25/11/2025, 23:59 **Good Windspeed does not directly translate to good air quality:** Even at higher windspeeds the air quality is not necessarily better. For example on 2025-11-25, with a windspeed of 9.1 the EAQI is still at 91.
- 30/11/2025, 23:59 **NO₂ values are the main contributor to bad AQI:** The NO₂ pollutant values contribute to the poor AQI in the area. A High concentration of NO₂ implies a potential combustion operation.

- 13/11/2025, 23:59 **R. Humidity is higher during poor AQI:** The humidity values are higher when the AQI is bad, implying water vapors could be causing a reaction with pollutants.
- 30/11/2025, 23:59 **CO, PM2.5 and PM100 contribute to EAQI:** CO, PM2.5 and PM100 pollutant concentrations are all elevated. This could imply that industrial activities impact the AQI values
- 30/11/2025, 23:59 **Industrial activities impact EAQI:** Several industrial operations are contributing to the poor EAQI. The pollutant values of NO2, PM2.5 and PM10 are elevated

Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
01/11/2025, 23:59	263	189.08	0	0	11.33	33.46
02/11/2025, 23:59	259	184.49	0	0	14.39	42.31
03/11/2025, 23:59	265	191.31	0	0	8.92	27.04
04/11/2025, 23:59	258	183.32	0	0	18.1	45.69
05/11/2025, 23:59					23.86	62.74
06/11/2025, 23:59					21.94	55.57
07/11/2025, 23:59					11.59	34.3
08/11/2025, 23:59					27.65	57.06
09/11/2025, 23:59					42.28	88.64
10/11/2025, 23:59	403	185.64	0	0	42.08	183.03
11/11/2025, 23:59	420	183.93	0	0	68.5	357.78
12/11/2025, 23:59	315	192.88	0	0	48.57	107.67
13/11/2025, 23:59	416	94.3	0	0	75.69	321.33
14/11/2025, 23:59	271	61.73	15.26	2.62	25.69	85.33
15/11/2025, 23:59	219	54.1	19.89	2.42	23.03	59.47
16/11/2025, 23:59	140	48	23.36	2.46	14.1	43.98
17/11/2025, 23:59	218	62.26	13.29	2	13.01	58.96
18/11/2025, 23:59	74	45.76	30.15	2.61	11.86	29.74
19/11/2025, 23:59	118	51.05	21.78	2.43	15.4	41.84
20/11/2025, 23:59	75	52.68	18.16	2.56	10.98	29.81
21/11/2025, 23:59	202	49.74	16.32	3.2	22.57	50.97
22/11/2025, 23:59	99	42.31	28.15	3.22	19.23	39.65
23/11/2025, 23:59	93	38.36	34.64	2.78	18.58	34.4
24/11/2025, 23:59	106	45.85	29.29	2.33	18.29	40.63
25/11/2025, 23:59	53	42.92	38.39	0.92	5.12	17.41
26/11/2025, 23:59	56	45.7	25.13	2.37	9.48	22.2
27/11/2025, 23:59	91	43.87	20.69	3.4	18.25	36.11
28/11/2025, 23:59	140	43.67	30.91	2.5	21.46	43.95
29/11/2025, 23:59	324	43.97	25.44	2.94	55.99	111.95
30/11/2025, 23:59	415	45.08	17.61	3.56	132.85	312.16

Alti parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
01/11/2025, 23:59	2.37	135.15	100	303.07	66	9.19	52.59	1007.32	16.92
02/11/2025, 23:59	4.06	174.82	100	309.43	64.6	12.06	63.97	1004.36	16.35
03/11/2025, 23:59	2.46	253.32	100	290.84	71.43	7.24	43.59	1003.86	14.2
04/11/2025, 23:59	2.45	323.1	100	293.92	72.36	15.74	66.64	1013.06	10.66
05/11/2025, 23:59	1.61	45.14	100		69.69	21.5	91.36	1013.35	10.33
06/11/2025, 23:59	1.61	123.12	100		70.55	18.9	81.89	1008.2	10.21
07/11/2025, 23:59	1.72	88.76	100		71.82	10.05	55.44	1005.36	10.61
08/11/2025, 23:59	2.09	72.32	100		86.06	25.27	69.78	1002.4	11.34
09/11/2025, 23:59	1.66	199.15	100		84.69	34.37	109.39	1005.43	11.4
10/11/2025, 23:59	2.93	13.22	100	372.08	87.52	33.31	487.03	1003.49	9.51
11/11/2025, 23:59	1.75	298.39	100	357.3	86.68	45.16	1083.43	1006.72	7.2
12/11/2025, 23:59	1.64	167.45	100	351.45	82.6	42.38	145.66	1010.6	8.39
13/11/2025, 23:59	2	147.77	100	388	86.81	43.76	853.71	1011.27	5.6
14/11/2025, 23:59	2.47	145.17	100	383.91	80.14	19.88	166.9	1008.44	9.1
15/11/2025, 23:59	2.81	178.31	100	359.04	79.6	20.81	86.28	1003.36	10.62
16/11/2025, 23:59	3.97	176.67	100	331.36	72.02	11.99	70.81	1000.81	12.27
17/11/2025, 23:59	6.13	190.85	100	312.4	66.06	8.6	82.02	993.75	14.18
18/11/2025, 23:59	3.6	345.7	100	343.68	78.97	10.67	45.23	1003.22	7.12
19/11/2025, 23:59	1.03	87.16	100	356.23	72.1	13.77	66.67	1003.1	7.17
20/11/2025, 23:59	3	154.07	100	343.43	79.41	9.63	46.71	997.58	10.37
21/11/2025, 23:59	1.33	206.31	100	358.21	84.29	20.65	69.98	996.69	8.81
22/11/2025, 23:59	3.29	348.11	100	333.18	87.27	17.95	50.44	1002.69	4.49
23/11/2025, 23:59	3.56	250.07	100	316.62	83.22	17.43	39.83	1005.04	2.7
24/11/2025, 23:59	4.79	162.25	100	333.09	78.73	16.9	56.44	1002.19	3.55
25/11/2025, 23:59	9.1	166.06	100	292.65	68.63	3.92	31.14	992.46	10.53
26/11/2025, 23:59	3.08	204.18	100	355.77	75.69	8.4	31.89	994.99	8.46
27/11/2025, 23:59	3.73	347.6	100	389.42	79.3	17.23	46.64	1005.16	4.41
28/11/2025, 23:59	2.65	358.56	100	339.1	82.29	19.98	55.09	1007.16	3.75
29/11/2025, 23:59	2.28	323.49	100	373.48	87.59	49.83	130.02	1003.05	3.55
30/11/2025, 23:59	2.26	207.41	100	405.23	89.57	74.81	440.45	1002.65	3.74

Oizom will not be responsible for Environmental Data accuracy once Validated