

# Primaria Tomesti

## MONTHLY AIR-QUALITY REPORT

Timp de la: 01/12/2025, 00:00

Timp până la: 30/12/2025, 23:59

Numele dispozitivului: Primaria Tomesti

Locația dispozitivului: DJ684 43, Colonia Fabricii, Romania

Parametrii: EAQI, NO<sub>2</sub>, O<sub>3</sub>, SO<sub>2</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, Wind Speed, Wind Direction, CO, R. Humidity, PM<sub>1</sub>, PM<sub>100</sub>, Pressure, Temperature



Media indicelui de calitate al aerului (ICA): 218

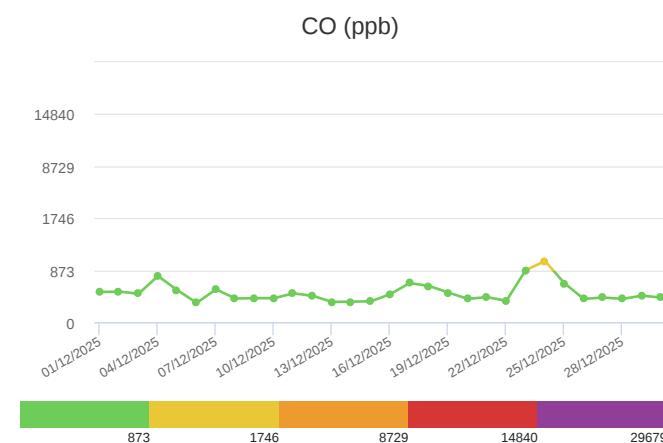
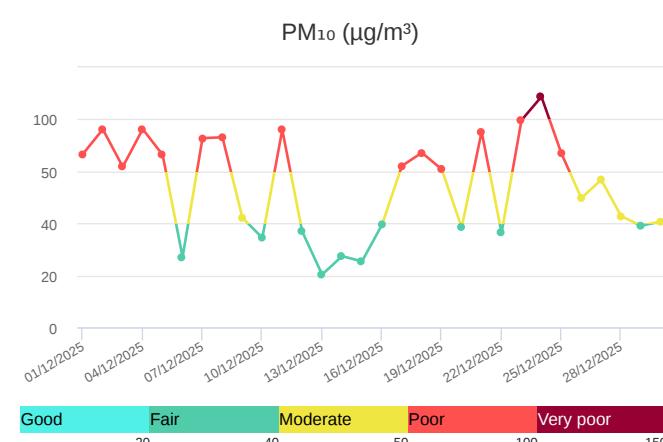
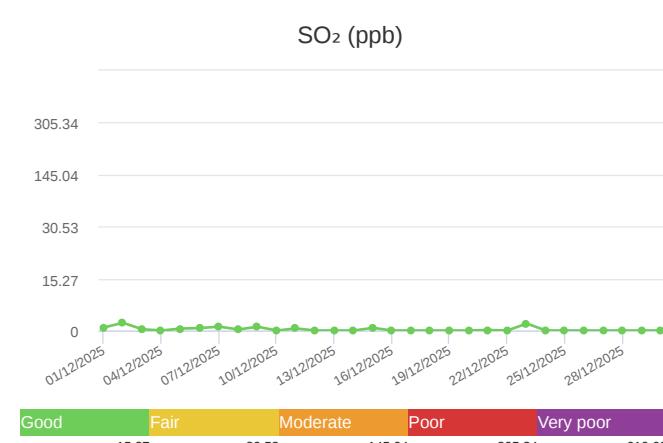
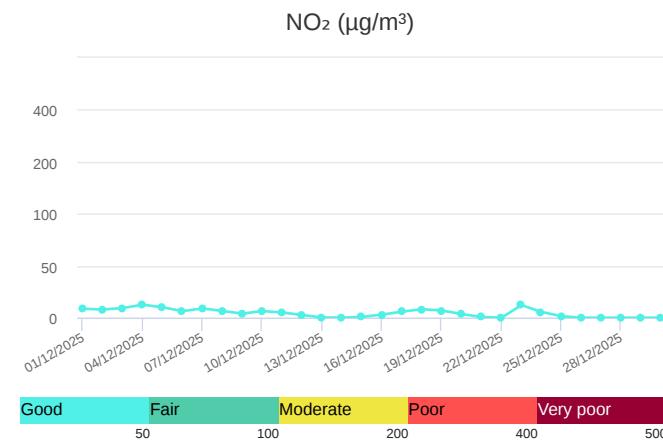
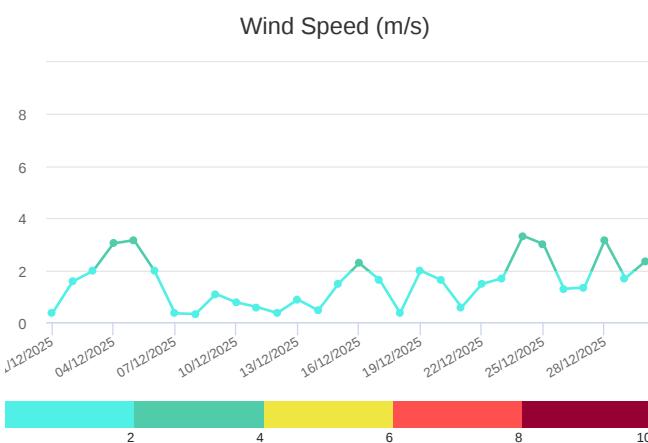
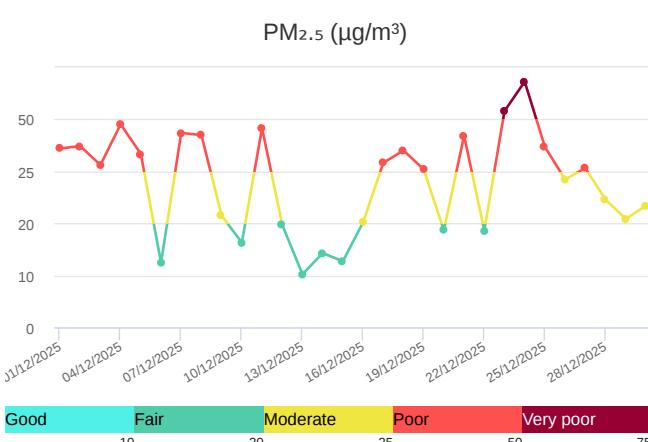
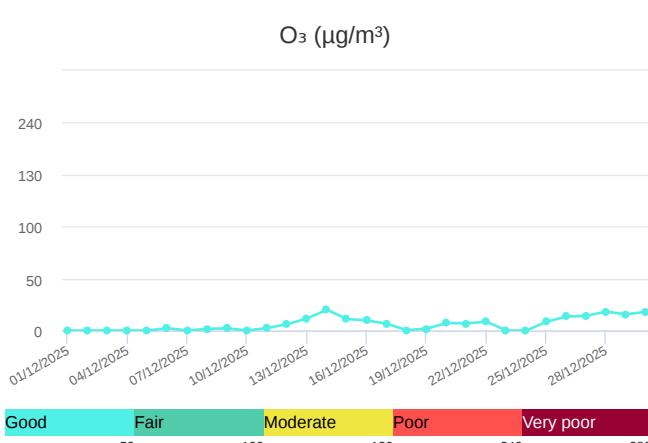
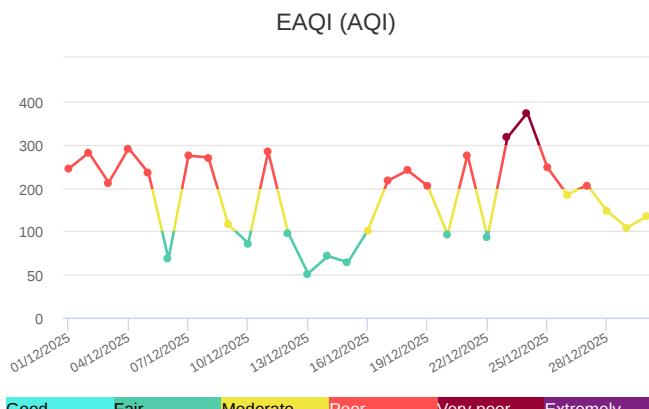
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

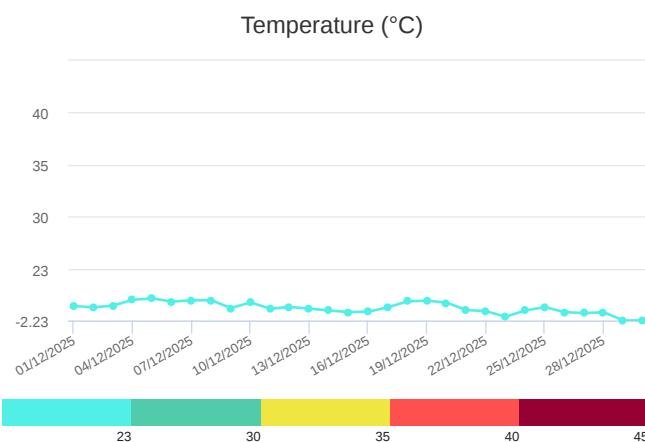
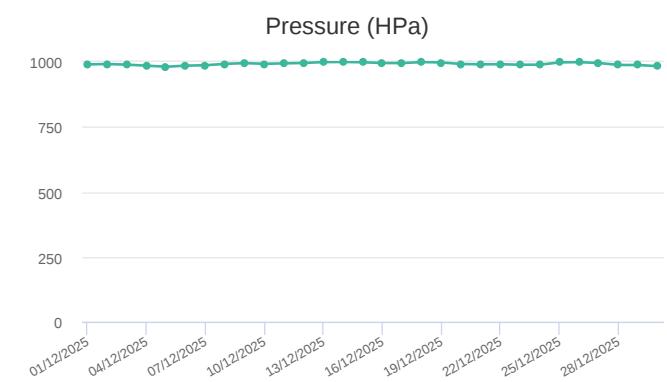
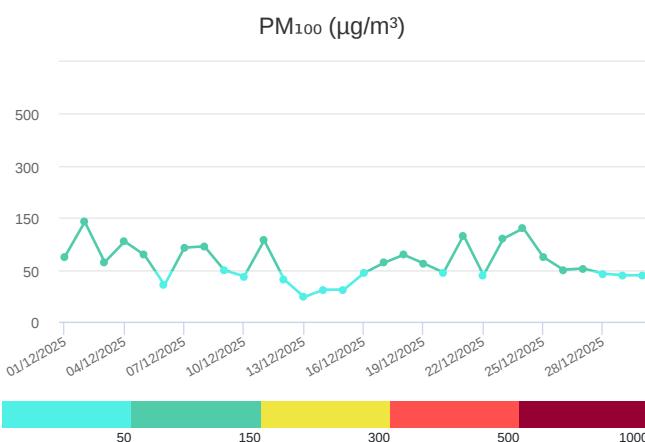
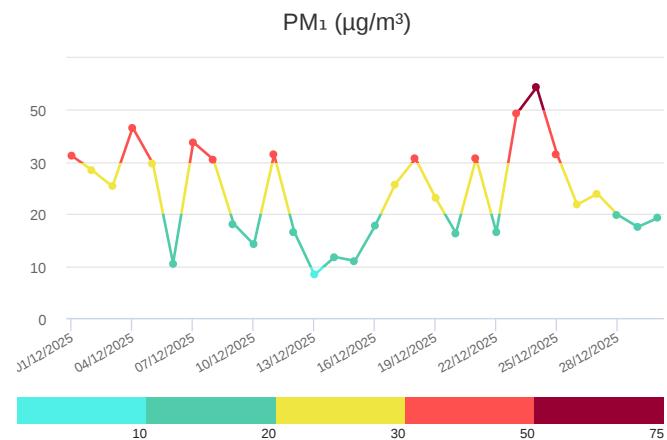
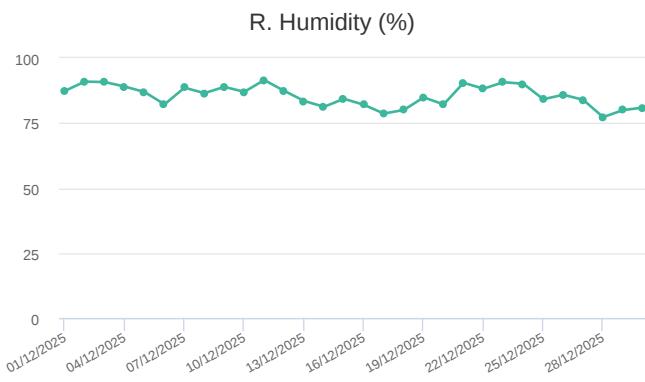
	EAQI AQI	NO <sub>2</sub> µg/m <sup>3</sup>	O <sub>3</sub> µg/m <sup>3</sup>	SO <sub>2</sub> ppb	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>
Average	218	4.28	5.13	0	29.47	57.15
Maximum	373	12.48	19.89	2.24	68.15	121.74
Date	24/12/2025	04/12/2025	14/12/2025	02/12/2025	24/12/2025	24/12/2025
Minimum	51	0	0	0	10.2	20.3
Date	13/12/2025	14/12/2025	01/12/2025	04/12/2025	13/12/2025	13/12/2025

Prezentare generală zilnică: Alți parametri

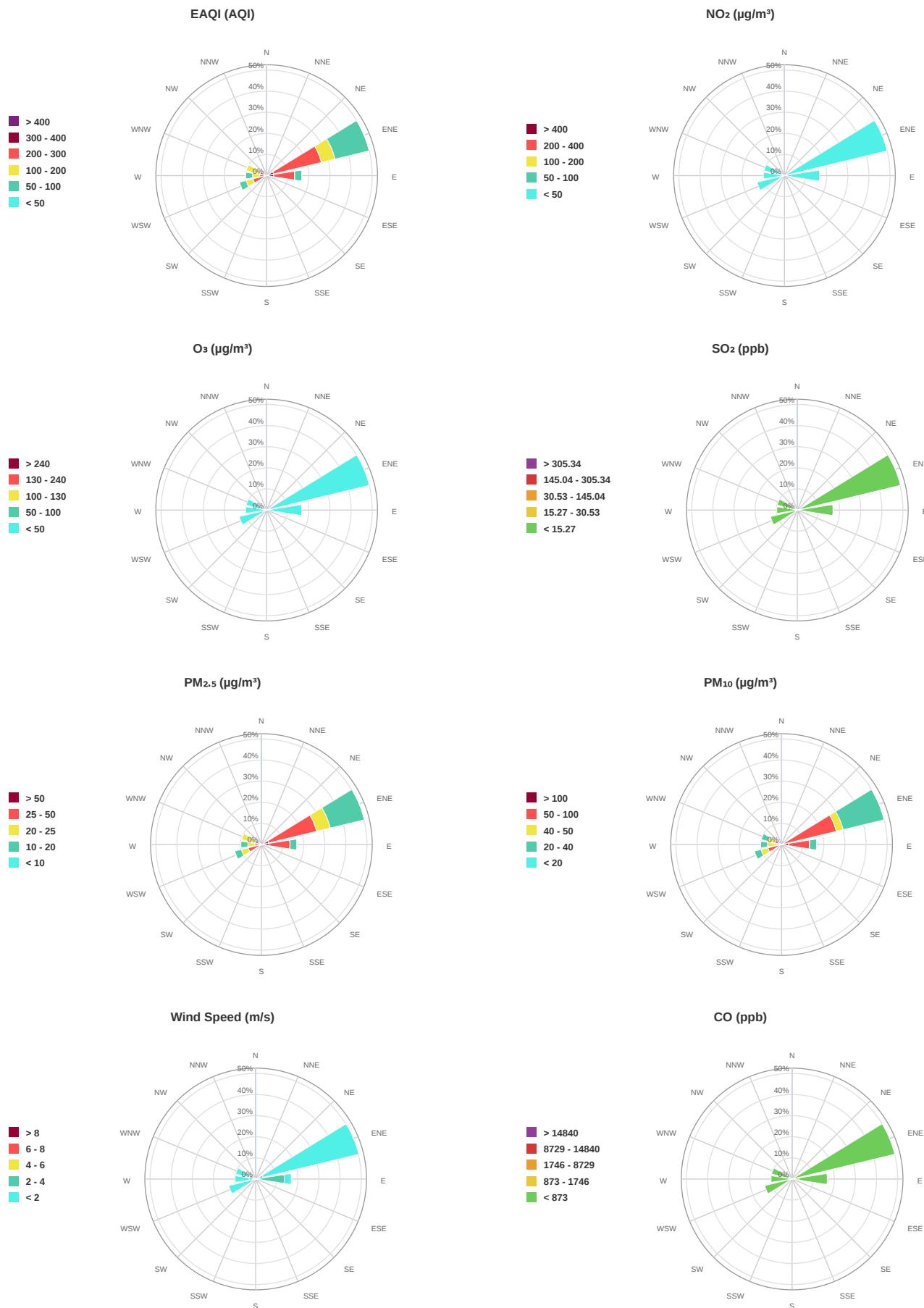
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM <sub>1</sub> µg/m <sup>3</sup>	PM <sub>100</sub> µg/m <sup>3</sup>	Pressure HPa	Temperature °C
<b>Average</b>	0.75	74.97	100	494.15	85.51	25.25	67.52	992.1	3.95
<b>Maximum</b>	3.32	91.99	100	1024.35	91.52	60.98	142.05	999.34	8.52
<b>Date</b>	24/12/2025	24/12/2025	01/12/2025	24/12/2025	11/12/2025	24/12/2025	02/12/2025	14/12/2025	05/12/2025
<b>Minimum</b>	0.31	296.19	100	323.27	77.26	8.3	23.78	981.18	-2.23
<b>Date</b>	08/12/2025	08/12/2025	01/12/2025	06/12/2025	28/12/2025	13/12/2025	13/12/2025	05/12/2025	29/12/2025

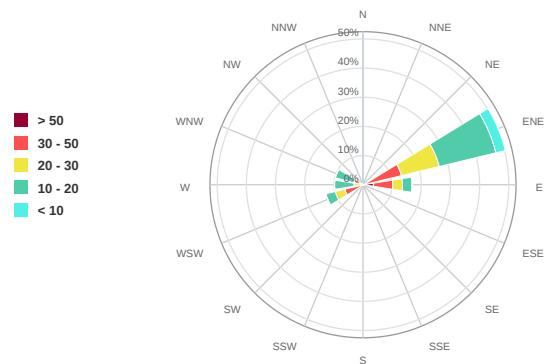
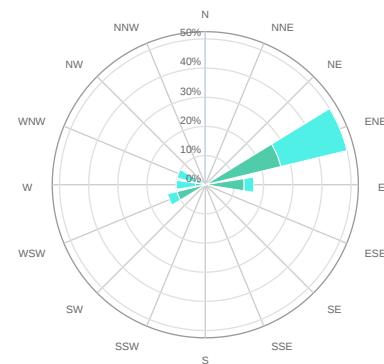
## Weekly Average





## Weekly Average



**PM1 ( $\mu\text{g}/\text{m}^3$ )**

**PM100 ( $\mu\text{g}/\text{m}^3$ )**

**Temperature (°C)**


## Alerte

No alerts for the selected date and time range

## Insights

- 30/12/2025, 23:59 **EAQI Fluctuations Indicate Varying Air Quality:** EAQI values range from 'Fair' to 'Very Poor', indicating significant air quality fluctuations throughout the month. The highest observed EAQI value is 373.
- 30/12/2025, 23:59 **Predominance of 'Poor' Air Quality Days:** The data shows a prevalence of 'Poor' AQI category days, suggesting persistent pollution issues. Out of 30 days, 10 days recorded 'Poor' AQI.
- 30/12/2025, 23:59 **Ozone Levels Predominantly Within 'Good' Zone:** Ozone levels are mostly at 0  $\mu\text{g}/\text{m}^3$ , falling in the 'Good' zone. There are a few instances where ozone levels rise slightly above 0.
- 30/12/2025, 23:59 **Low SO<sub>2</sub> Levels Indicate Minimal Sulfur Dioxide Pollution:** SO<sub>2</sub> levels are consistently low, ranging from 0 to 2.24 ppb, suggesting minimal sulfur dioxide pollution during the period.
- 30/12/2025, 23:59 **PM<sub>2.5</sub> Levels Frequently Exceed Safe Limits:** PM<sub>2.5</sub> levels often exceed the 'Good' threshold of 10  $\mu\text{g}/\text{m}^3$ , reaching a maximum of 68.15  $\mu\text{g}/\text{m}^3$ , classifying it as 'Very Poor' on 2025-12-24.
- 30/12/2025, 23:59 **PM<sub>10</sub> Levels Show Significant Pollution:** PM<sub>10</sub> levels frequently surpass the 'Good' threshold of 20  $\mu\text{g}/\text{m}^3$ , peaking at 121.74  $\mu\text{g}/\text{m}^3$ , indicating a 'Very Poor' level.
- 30/12/2025, 23:59 **NO<sub>2</sub> Levels Generally Within 'Good' to 'Fair' Range:** NO<sub>2</sub> levels are generally within the 'Good' to 'Fair' range, with values typically below 21.25  $\mu\text{g}/\text{m}^3$ , and only a few instances exceeding this threshold.
- 30/12/2025, 23:59 **Correlation Between EAQI and PM<sub>2.5</sub> Concentrations:** Higher EAQI values often coincide with elevated PM<sub>2.5</sub> concentrations, suggesting PM<sub>2.5</sub> is a major contributor to poor air quality.
- 30/12/2025, 23:59 **Wind Speed Does not Correlate with Pollution Levels:** Higher Wind Speed does not correspond to improvements to Air Quality. Days with low wind speed don't necessarily show highest pollution levels.
- 30/12/2025, 23:59 **Temperature Inversion impact on Air Quality:** Air quality is generally worse when temperatures are lower, potential related to temperature inversions trapping pollutants.
- 30/12/2025, 23:59 **CO Levels Fluctuate but remain high:** CO levels vary considerably, reaching as high as 1024.35 ppb on 2025-12-24. The lowest reading is 323.27 ppb on 2025-12-06.
- 30/12/2025, 23:59 **Humidity Consistently High Throughout the Period:** Relative humidity remains consistently high, mostly above 80%, potentially influencing the dispersion and behavior of pollutants.
- 30/12/2025, 23:59 **Poor AQI Correlates with High PM<sub>10</sub> Concentrations:** Days with 'Poor' AQI frequently show elevated PM<sub>10</sub> levels, which suggests coarse particulate matter is contributing to poor air quality.
- 30/12/2025, 23:59 **Fluctuations in PM1 Influence Overall Air Quality:** PM1 concentrations exhibit fluctuations, which likely contribute to the variations observed in overall air quality and EAQI values.
- 30/12/2025, 23:59 **Ozone Stays within the 'Good' and 'Fair' Zone:** Ozone stays predominantly within 'Good' to 'Fair' zones with max recorded value of 39.05  $\mu\text{g}/\text{m}^3$  on 2025-12-14.
- 30/12/2025, 23:59 **PM100 Concentration Track with PM10:** Coarse particles like PM<sub>10</sub> and PM<sub>100</sub> track in similar concentration ranges indicating same root cause of emissions.
- 24/12/2025, 23:59 **Highest EAQI Occurs with High PM<sub>2.5</sub> and PM<sub>10</sub>:** The peak EAQI value of 373 coincides with significantly elevated PM<sub>2.5</sub> (68.15  $\mu\text{g}/\text{m}^3$ ) and PM<sub>10</sub> (121.74  $\mu\text{g}/\text{m}^3$ ) levels.
- 29/12/2025, 23:59 **Lowest Temperature Coincides with High Pollution:** Lowest temperature recorded at -2.23°C on 2025-12-29T21:59:59.000Z is associated with EAQI of 108, due to inversion.
- 16/12/2025, 23:59 **Fair Days Coincide with Lower PM Concentrations:** The days categorized as 'Fair' generally correspond to lower concentrations of PM<sub>2.5</sub> and PM<sub>10</sub>, demonstrating their influence on air quality.
- 30/12/2025, 23:59 **Pressure Appears to Vary Inversely with EAQI:** There appears to be some correlation between Atmospheric pressure and AQI. Relatively lower pressures (981-988 HPa) coincide with Poor AQI days.
- 24/12/2025, 23:59 **CO Spikes Correlate with Poor Air Quality:** Peaks in CO concentration, such as the 1024.35 ppb on 2025-12-24, coincide with elevated EAQI values, suggesting a link to overall pollution.
- 30/12/2025, 23:59 **Higher Wind Speed Doesn't Guarantee Improved Air Quality:** While higher wind speeds might be expected to disperse pollutants, the data doesn't consistently show a clear correlation between wind speed and improved air quality.
- 30/12/2025, 23:59 **Prevailing Wind Direction from East:** East wind direction is prevailing during the recorded period. Source of pollutants could possibly be from eastern regions.
- 30/12/2025, 23:59 **High Relative Humidity May Exacerbate Pollution:** Persistently high relative humidity may worsen the effects of air pollution by increasing the residence time and reactivity of pollutants in the atmosphere.
- 24/12/2025, 23:59 **Elevated PM<sub>10</sub> Levels on December 24th:** PM<sub>10</sub> level touches 121.74  $\mu\text{g}/\text{m}^3$  on December 24th which categorizes as 'Very Poor'. This contributes to overall Air Quality index.
- 30/12/2025, 23:59 **Temperature Fluctuation and its effect on AQI:** Temperature ranges between -2.23°C to 8.52°C across the time range. Lower Temperature seems to be having a negative effect on AQI.
- 30/12/2025, 23:59 **Higher Pressure Readings Correlate with Better Air:** Elevated Atmospheric Pressure (995-999 HPa) correlate with the days reporting Fair or Moderate AQI readings.

- 30/12/2025, 23:59 **Limited impact of Nitrogen Dioxide:** Nitrogen Dioxide concentrations are generally low except 2025-12-04T21:59:59.000Z. It has a minimal effect on overall Air Quality values.
- 30/12/2025, 23:59 **Impact of CO on EAQI Values:** Carbon Monoxide peaks correlates with very poor EAQI Value of 373 on 2025-12-24T21:59:59.000Z. This indicates that CO is a strong indication of poor air quality.
- 30/12/2025, 23:59 **Battery Levels Stable During Testing:** Battery levels remain at 100% during this testing period, this means the monitoring equipment didn't fail.

# Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO <sub>2</sub> µg/m <sup>3</sup>	O <sub>3</sub> µg/m <sup>3</sup>	SO <sub>2</sub> ppb	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>
01/12/2025, 23:59	244	8.56	0	0.88	36.01	66.68
02/12/2025, 23:59	281	7.88	0	2.24	37.16	90.39
03/12/2025, 23:59	212	9.24	0	0.37	28.05	54.33
04/12/2025, 23:59	291	12.48	0	0	47.63	90.6
05/12/2025, 23:59	234	9.95	0	0.56	33.41	65.84
06/12/2025, 23:59	68	6.34	2.24	0.7	12.43	27.01
07/12/2025, 23:59	274	8.89	0	1.15	43.5	81.89
08/12/2025, 23:59	270	6.44	1.62	0.29	42.39	82.77
09/12/2025, 23:59	115	3.92	2.12	1.1	20.74	41.09
10/12/2025, 23:59	86	6.39	0	0	16.27	34.39
11/12/2025, 23:59	283	5.02	2.42	0.59	45.85	90.05
12/12/2025, 23:59	98	2.6	6	0	19.69	36.83
13/12/2025, 23:59	51	0.24	11.61	0	10.2	20.3
14/12/2025, 23:59	71	0	19.89	0	14.27	27.36
15/12/2025, 23:59	64	0.76	11.02	0.76	12.71	25.37
16/12/2025, 23:59	102	2.99	9.69	0	20.09	39.41
17/12/2025, 23:59	216	5.75	6.46	0	29.05	55.19
18/12/2025, 23:59	240	8.18	0.34	0	35.05	67.89
19/12/2025, 23:59	204	6.89	1.73	0	25.96	52.02
20/12/2025, 23:59	96	3.49	7.13	0	18.67	38.37
21/12/2025, 23:59	276	0.65	6.97	0.15	42.17	88.1
22/12/2025, 23:59	93	0	8.39	0	18.61	36.37
23/12/2025, 23:59	316	12.13	0	2.04	53.98	99.22
24/12/2025, 23:59	373	5.54	0	0	68.15	121.74
25/12/2025, 23:59	247	1.46	8.3	0	36.74	67.37
26/12/2025, 23:59	184	0	13.45	0	24.22	44.86
27/12/2025, 23:59	206	0	14.11	0	26.58	48.36
28/12/2025, 23:59	146	0	18.14	0	22.29	41.38
29/12/2025, 23:59	108	0	15.56	0	20.42	39.09
30/12/2025, 23:59	134	0	17.97	0	21.7	40.35

## Altı parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM <sub>1</sub> µg/m <sup>3</sup>	PM <sub>100</sub> µg/m <sup>3</sup>	Pressure HPa	Temperature °C
01/12/2025, 23:59	0.33	258.35	100	505.7	87.35	32.3	75.1	990.19	4.82
02/12/2025, 23:59	1.56	78.33	100	511.99	90.92	28.4	142.05	991.45	4.19
03/12/2025, 23:59	1.97	75.01	100	477.04	90.76	25.28	64.59	989.11	5.04
04/12/2025, 23:59	3.03	85.29	100	773.31	89.03	43.24	104.47	985.09	7.87
05/12/2025, 23:59	3.15	85.65	100	536.81	86.91	29.73	78.16	981.18	8.52
06/12/2025, 23:59	1.97	82.12	100	323.27	82.18	10.5	35.4	985.27	6.95
07/12/2025, 23:59	0.34	59.97	100	549.18	88.58	37.63	92.48	986.88	7.6
08/12/2025, 23:59	0.31	296.19	100	396.34	86.49	30.89	95.13	992.32	7.61
09/12/2025, 23:59	1.08	71.76	100	400.77	88.9	18.12	49.48	994.92	3.84
10/12/2025, 23:59	0.76	76.41	100	401.52	86.99	14.12	43.75	992.37	6.56
11/12/2025, 23:59	0.58	251.91	100	483.19	91.52	32.82	106.48	994	3.51
12/12/2025, 23:59	0.35	258.37	100	440.95	87.38	16.54	40.68	995.62	4.35
13/12/2025, 23:59	0.87	77.06	100	338.36	83.5	8.3	23.78	998.99	3.52
14/12/2025, 23:59	0.45	259.27	100	343.03	81.22	11.74	30.87	999.34	2.64
15/12/2025, 23:59	1.49	75.08	100	349.43	84.31	10.98	30.88	998.28	1.87
16/12/2025, 23:59	2.27	74.62	100	468.62	82.01	17.72	46.82	995.33	2.07
17/12/2025, 23:59	1.62	77.32	100	654.74	78.63	25.76	63.18	995.13	4.24
18/12/2025, 23:59	0.35	65.7	100	607.37	80.01	31.29	78.89	998.98	7.1
19/12/2025, 23:59	1.98	73.21	100	496.73	84.86	23.02	62.24	997.39	7.43
20/12/2025, 23:59	1.62	76.34	100	390.19	82.15	16.34	47.38	991.64	6.38
21/12/2025, 23:59	0.57	78.57	100	419.45	90.47	31.44	116.07	990.3	2.89
22/12/2025, 23:59	1.47	77.07	100	358.07	88.19	16.46	44.75	990.79	2.3
23/12/2025, 23:59	1.69	74.87	100	872.69	90.7	48.43	110.13	988.71	-0.37
24/12/2025, 23:59	3.32	91.99	100	1024.35	90.1	60.98	129.79	989.15	2.7
25/12/2025, 23:59	3	94.9	100	652.42	84.14	33.12	74.53	997.77	4.27
26/12/2025, 23:59	1.28	258.46	100	389.64	85.87	21.79	50.13	998.74	1.87
27/12/2025, 23:59	1.33	262.65	100	413.27	83.92	23.9	52.59	995.3	1.36
28/12/2025, 23:59	3.16	281.71	100	389.29	77.26	19.86	46.26	987.94	1.81
29/12/2025, 23:59	1.69	281.87	100	443.68	79.97	17.51	44.78	987.53	-2.23
30/12/2025, 23:59	2.35	273.27	100	413.17	80.91	19.23	44.6	983.35	-2.15

Oizom will not be responsible for Environmental Data accuracy once Validated