inBiot

GO IAQS Dashboard

Assessment by Anne, WELL AP · GO AQS v1.0

Main Office Space WELL

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Pamplona, Navarra, Spain · 42.80°N, 1.61°W

INBIOT MICA WELL
Apr 18, 2026 / 11:39 PM UTC
● ONLINE

GO IAQS SCORE

10 9 8 7 6 5 4 3 2 1 0
A

Currently
Apr 18, 2026
11:39 PM UTC

10 Good

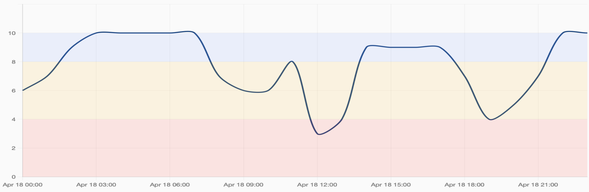
Advice
Air quality is satisfactory. Enjoy normal activities.

Dominant Pollutant
CO_2, CH_2O, PM2.5, CO, O_3, NO_2 — all tied at full sub-score (10); exemplar: CO_2 at 400 ppm.

GO IAQS **SCORE**
10 - Good

SCORE — LAST 24 HOURS

10



The hourly GO IAQS Score dipped into Moderate and Unhealthy bands around midday UTC when ozone dominated, with the lowest point at score 3, then recovered through the afternoon and evening. Late night returned to sustained Good (10) with all six scored pollutants sharing the top band; the current reading continues that favourable tail.

GO IAQS SCORE — PER-POLLUTANT BREAKDOWN (Ultimate — 6 of 7 pollutants)

POLLUTANT	LAST VALUE	SCORE	STARTER (VALUE / LIMIT)	STATUS	ULTIMATE (VALUE / LIMIT)	STATUS
PM2.5	1.0 µg/m³	10	1.65 / ≤25 (24h)	PASS	1.0 / ≤15 (1h)	PASS
CO_2	400.0 ppm	10	400.0 / ≤1000	PASS	400.0 / ≤800	PASS
O_3	2.0 ppb	10	—	—	30.52 / ≤51 (8h)	PASS
CH_2O	3.0 µg/m³	10	—	—	2.4 / ≤27	PASS
CO	0.0 ppm	10	—	—	0.19 / ≤9 (8h)	PASS
NO_2	2.0 ppb	10	—	—	1.04 / ≤21 (8h)	PASS
Radon	—	—	—	—	— / ≤100	N/A

Value = latest evaluated concentration for the limit's averaging rule (`latest_rolling_avg`). **Status** = pass/fail for *that same evaluation* (`latest_eval_status`), including dual 8h+1h rules for CO/NO_2. Full-day behaviour vs limits is shown in the **compliance charts** below; the **score trend** above is separate from GO IAQS limits.

Right now the space sits in GO IAQS Good (A) with a perfect 10 because every measured pollutant lands in the top scoring band. Radon remains unscored without a dedicated monitor. The midday ozone episode visible in the 24h score chart did not leave the *current* instantaneous readings elevated.

GO IAQS GUIDELINES — 24H COMPLIANCE

STARTER
PM2.5 + CO_2

ULTIMATE
All pollutants

PM2.5 (24H AVG)

1.65 µg/m³

CO_2 (THRESHOLD)

400 ppm

TEMPERATURE

21.99 °C

HUMIDITY

52.08 %

Starter $PM_{2.5}$ and CO_2 stayed within limits for the full window. On Ultimate, the 8-hour ozone rolling average breached the 51 ppb ceiling during the early UTC hours before recovering; the latest evaluation hour now passes with 30.52 ppb under the limit. CO_2 briefly touched ~450 ppm in-hour peaks but rolling evaluation against thresholds remains green.

OUTDOOR CONDITIONS

WEATHER

TEMP	HUMIDITY	WIND
11.1°C	93%	3.1 m/s
Clear sky	1022 hPa	Light breeze

AIR QUALITY

	PM2.5	O_3	NO_2
1 GOOD	1.85 µg/m³	48.32 µg/m³	1.01 µg/m³

Outdoor air at the device coordinates is CAQI Good with modest $PM_{2.5}$ and NO_2, while ozone in ambient air is materially higher than the 2 ppb reading indoors—consistent with filtration or limited ingress protecting the room. Cool, humid outdoor conditions contrast with the drier, warmer interior (21.9 °C, 52% RH), typical of conditioned office air.

Source: OpenWeather API · Coordinates: 42.80°N, 1.61°W

THERMAL & COMFORT

TEMPERATURE	HUMIDITY	TVOC	THERMAL COMFORT
21.9°C	52%	63 ppb	100/100
Limit: 20–26°C [ASHRAE 55]	Limit: 30–60% [WELL]	164 µg/m³ Molhave (ppb × 2.61) — below WELL 500 µg/m³	Excellent

Thermal conditions align with office comfort norms: dry-bulb temperature sits inside the ASHRAE 55 band cited in WELL, and relative humidity is inside WELL's 30–60% guidance. TVOC in Molhave-equivalent units remains well under WELL's 500 µg/m³ screening threshold, so there is no chemical-load warning from that aggregate index.

INBIOT COMPOSITE INDICATORS

IAQ INDEX	THERMAL COMFORT	VENTILATION	VIRUS RESISTANCE
100	100	100	100
Excellent	Excellent	Excellent	High resistance

METHODOLOGY

GO IAQS Score — Instantaneous air quality index (0–10) from the GO AQS White Paper v1.0. Each pollutant is scored individually via piecewise linear interpolation; the overall score equals the *worst* sub-score (worst-pollutant-wins). When multiple pollutants share the same score in the Moderate or Unhealthy range, a synergistic reduction of −1 applies. Categories: 8–10 = **Good (A)**, 4–7 = **Moderate (B)**, 0–3 = **Unhealthy (Z)**. Colours are CVD-accessible. TVOC is excluded per GO AQS [Salthammer].

Outdoor Context — Current weather and ambient air quality from OpenWeather API at the device's configured coordinates. Provides indoor–outdoor comparison for ventilation decisions and source attribution (e.g. outdoor O_3 ingress explaining indoor ozone spikes). AQI uses the European Common Air Quality Index (CAQI) scale: 1=Good, 2=Fair, 3=Moderate, 4=Poor, 5=Very Poor.

Thermal & Comfort — Temperature, humidity, and TVOC compared against WELL v2 and ASHRAE thresholds. Thermal comfort index from inBiot firmware. Not part of GO IAQS scoring.

GO IAQS Guidelines — Time-averaged compliance against *Starter* (PM2.5 ≤25 µg/m³ 24h avg, CO_2 ≤1000 ppm) and *Ultimate* (PM2.5 ≤15 1h, CO_2 ≤800, O_3 ≤51 8h, CH_2O ≤27, CO ≤9 8h / ≤31 1h, NO_2 ≤21 8h / ≤106 1h, Radon ≤100 Bq/m³) limits. Charts show rolling averages at the correct period over the last 24 hours; dashed red lines mark the limit. Distinct from the Score — a building can have a Moderate Score during a busy afternoon but still pass the 24h Starter limit. The pollutant table shows the **latest** limit evaluation and status (see legend under that table).

inBiot Composite Indicators — Five 0–100 indices calculated by inBiot firmware from continuous sensor data, each grounded in published frameworks: **IAQ Index** (CO_2 + TVOC + PM2.5, based on RESET AIR INDEX); **Ventilation Efficiency** (CO_2 + TVOC, inBiot algorithm); **Virus Resistance** (temp + humidity + CO_2 + PM2.5, based on RESET VIRAL INDEX v2023); **Mold Resistance** (temp + humidity cumulative, based on Hukka-Viitanen model + ASHRAE 160); **Thermal Comfort** (temp + humidity, adapted from UNE-EN ISO 7730 PMV/PPD).

All calculations are deterministic — performed by the inBiot scoring engine. Same inputs always produce the same result. Radon requires a dedicated monitor and is flagged when unavailable.

Standard: GO AQS v1.0 (CC BY-SA 4.0) · Scoring: GO AQS White Paper v1.0
Data: inBiot MICA sensor · Device: main_office · Outdoor: OpenWeather API · Assessment: Anne, WELL AP Consultant
Radon requires a dedicated monitor — not scored. TVOC excluded per GO AQS [Salthammer].
Compliance: GO IAQS Starter + Ultimate limits (rolling averages)