

ABU DHABI CAR PARK AIR QUALITY CO/NO2/PM10 MONITORING

Ensure your enclosed car parks meet Estidama LBi-4 standards and **earn 2 credit points for your project**

Designed To Meet ESTIDAMA LBi-4

The GM200 is the only detector in the GCC designed to monitor carbon monoxide (CO), nitrogen dioxide (NO2), and PM10 in car parks, fully aligned with Estidama LBi-4 air quality management requirements.

WHY GM200?

- ▶ First combined digital CO/NO2/PM10 detector for enclosed car parks
- ▶ Plug & play design to earn 2 credits for Estidama LBi-4
- ▶ Manufactured in the UK

KEY FEATURES

- ▶ Combined CO/NO2/PM10 monitor with replaceable sensor cartridges
- ▶ IP65 enclosure with hinged cover for ease of installation
- ▶ Non-intrusive calibration
- ▶ Outputs include: Modbus RTU, Bacnet MS/TP, 0-10V, 4-20mA and 4 x 8A/250V relays
- ▶ Display screen and RGB LED status indications
- ▶ In-built audible alarm
- ▶ UL Listing Pending



Contact our team today!

info@snsmiddleeast.ae
www.snsmiddleeast.ae
Building A1, Dubai Silicon Oasis, Dubai, UAE

Estidama LBi-4 Requirements

Compliance Made Simple

Demonstrate that the ventilation design meets or exceeds requirements for pollutant concentrations in car parks. This will be achieved via continuous measurement of the following:

LBi-4 Requirements (Car Parks):

- CO: 15-minute average $\leq 100 \text{ mg/m}^3$ ($\approx 87 \text{ ppm}$)
- NO₂: 1-hour average $\leq 200 \text{ }\mu\text{g/m}^3$ ($\approx 0.106 \text{ ppm}$)
- PM10: 24-hour average $\leq 50 \text{ }\mu\text{g/m}^3$

GM200 Meets LBi-4:

- ✓ CO: Continuous monitoring, alarms at 25 ppm (pre-alarm) and 100 ppm (full alarm)
- ✓ NO₂: Continuous monitoring, alarms at 0.5 ppm and 2 ppm
- ✓ PM10: Continuous monitoring, alarms at $31 \text{ }\mu\text{g/m}^3$ and $114 \text{ }\mu\text{g/m}^3$

GM200 Compliance:

- Real-time data integrated with your BMS to ensure proper ventilation and air quality at all times
- Strategic monitoring locations: entrances/exits, all levels, and worst-case zones in the car park
- Automated alerts and control sequences prevent pollutant exceedances, fully meeting Estidama criteria

Requirement Achievement:

CREDIT POINTS	REQUIREMENTS
1 (maximum)	Design Rating
1	Ensure car parking ventilation design meets the credit requirements.
1 (maximum)	Construction Rating
1	Ensure car parking ventilation design meets the credit requirements.

Credit Submission - Design Rating (ONE CREDIT):

- Brief narrative describing how the project intends to meet the credit criteria;
- Drawings or extracts from specifications indicating the proposed location of air quality sensors, outdoor air intakes and outlets, and the air quality alert system; and
- BMS point schedules

Credit Submission - Construction Rating (ONE CREDIT):

- Update narrative describing how the project meets the credit criteria;
- Description and as-built drawings of all air quality sensors, outdoor air intakes and outlets, and the air quality alert system; and
- Commissioning report showing appropriate calibration, set-points and control sequences (as relevant) of all air quality sensors and alert systems.

Contact our team today!