



SMARTER AIR. SAFER PARKING.

Ventilation only when it is needed.

RIGHTECH's CO2 monitoring solution continuously senses air quality in parking zones. When the measured level reaches a configured setpoint, the controller automatically starts the exhaust and fresh-air fans, helping restore safe and comfortable

DESIGN FLEXIBILITY

Standalone, PLC-based or BMS-integrated control for single-zone and multi-zone parking.

HOW IT WORKS

Automatic operating sequence

1

SENSE

Sensors continuously measure the parking-zone gas level.

2

COMPARE

Controller compares the live value with configured setpoints.

3

CONTROL

Relay, MCC or VFD command is issued automatically.

4

VENTILATE

Exhaust and fresh-air fans run until the level recovers.

SYSTEM ADVANTAGES

Built for reliable, energy-efficient operation

Continuous monitoring

Live zone-wise gas-level measurement.

Automatic fan control

Start, stop and staged ventilation logic.

VFD-ready operation

Low/high-speed control based on demand.

Alarm annunciation

Hooter, beacon and fault indication options.

BMS / SCADA integration

Modbus, BACnet or dry-contact interface options.

Expandable architecture

Flexible zoning for future parking expansion.

CONTROL PHILOSOPHY

Multi-stage response

Setpoints, delays and fan sequences are configured to suit the parking layout and project requirements.

NORMAL	Fan off / low speed
STAGE 1	Normal ventilation
STAGE 2	High speed + alarm

TYPICAL CONFIGURATION

Complete system package

- CO2 sensor / transmitter with field enclosure
- Central controller, PLC or ventilation control panel
- MCC, contactor or VFD interface for fans
- HMI display, hooter and beacon as required
- BMS / SCADA communication and event indication
- Power, control and communication cabling

TURNKEY SERVICES

From survey to commissioning

- Site survey, zoning and control philosophy
- Engineering, supply, installation and wiring
- PLC / VFD programming and BMS integration
- Testing, commissioning and operator training
- Calibration support and preventive maintenance

APPLICATIONS

Basements | Multi-level parking | Malls | Hotels | Hospitals | Residential | Industrial