



HVAC Business Unit Newsletter

Issue 31

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Enclosed Parking Garages



Inside this issue:

Critical Environment Technologies --
Making Gas Detection Easy



SPOTLIGHT ON: Making Gas Detection Easy

Eurotec, the NZ Distributor of Critical Environment Technologies, is your one-stop solution for gas detection systems. Our dedicated team of in-house gas detection experts is committed to simplifying your life when it comes to selecting the right gas detection system for your project. In addition to that, we have the added benefit of Critical Engineers who provide exceptional support with their technical expertise and in-depth product application knowledge.

At Eurotec, we understand that each project is unique, even if it's the same type of application, such as parking garages. When it comes to gas detection solutions, the size, layout, placement of columns, walls, and other obstacles, as well as the locations of entrances, exits, and ventilation equipment, all play a crucial role.

These variables significantly influence various aspects of the gas detection system, including the number of sensors needed, their optimal installation locations, the necessity for zoning considerations, and the potential requirement for additional hardware such as relays, analog outputs, power supplies, and more.

TARGET GAS

- Carbon Monoxide
- Nitrogen Dioxide
- Hydrogen
- Propane
- Ammonia
- Methane
- Ozone, Ethylene, Chlorine, Etc.



Large vs Small Parking

Parking facilities vary in size, design, location and the number and type of cars coming and going. Gas detection systems play a crucial role in monitoring exhaust fume build-up, triggering the ventilation system to expel pollutants and bring in fresh air.

To ensure a safe and breathable environment in the parking facility while minimizing energy costs associated with the ventilation system's operation, the installation of a hazardous gas detection system is essential.

Each gas detector can cover an area of up to a 50 ft / 17 m radius, ensuring 360-degree coverage.

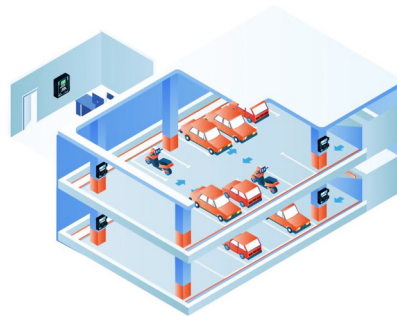
Small to midsized parking garages may only require 1 or 2 sensors and no additional remote power supplies or control devices as the 2 internal relays of the SCC Self-Contained Controller or DCC Self-Contained Controller will be adequate.

Contact your local Eurotec HVAC Sales Engineer or give us a call on 09 579 1990.



Large parking garages will have more sensing locations, especially when there are multiple levels. Depending on the area to be monitored, one or more remote power supplies may be required.

Additional internal and remote control interfaces maybe needed to drive fans, heaters and louvers/dampers using relays, 4-20 mA output or Modbus® output. A system with an FCS Controller, CGAS-D transmitters and any required remote devices has all the bells and whistles required for large parking garage applications.



*Typical Large Parking Garage
CO and NO2 Monitoring
System*

Contact your local Eurotec HVAC Sales Engineer for further information on the products mentioned in this newsletter or to discuss your project requirements.

Upper North Island

Kobus van Staden
kvanstaden@eurotec.co.nz
DDI 09 526 7562
Mob 021 902 593

Bhavin Bhambhani
bbhambhani@eurotec.co.nz
DDI 09 526 7561
Mob 021 920 289

Dimche Kocev
dkocev@eurotec.co.nz
DDI 09 978 1439
Mob 021 752 616

Lower North Island

Clinton Packer
cpacker@eurotec.co.nz
DDI 04 494 2403
Mob 021 439 090

South Island

Steve Cunningham
scunningham@eurotec.co.nz
DDI 03 353 7146
Mob 021 581 113

Discover how effortlessly we can design your gas detection system with simple **3-Step Approach**.

[Watch the video to learn more!](#)



Contact Eurotec: **EUROTEC**

AK: 09-579-1990
CH: 03-366-0017
WLG: 04-499-3591

Email us: sales@eurotec.co.nz

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