



# HVAC Business Unit Newsletter

Issue 32

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Critical Environment Technologies --  
CGas Detector



## **SPOTLIGHT ON:** CGAS Detector for indoor public spaces

**CGAS Detector: Unobtrusive monitoring of carbon dioxide, carbonmonoxide, formaldehyde, particulates, air conditioning refrigerants, TVOCs, RH and temperature**

People spend a large percentage of their time indoors so maintaining the highest quality of indoor air is critical to their health, well being and comfort.

Fine particulate matter, off gassing from carpets and furniture, people breathing, combustion from a heating source, too high or too low relative humidity levels and high temperatures all contribute to the quality of indoor air. Poor air quality can go unnoticed if it is not being monitored as many of the contributing factors are not visible and have no odour.

Proper ventilation and filtration are the key to a healthy indoor breathing environment.

The number of people inside the building will cause fluctuations in the amount of CO<sub>2</sub>, the RH and temperature levels and the number of particles floating in the air. Early detection of unacceptable levels help ensure the ventilation system settings are adequate and the system is functioning properly especially during high occupancy times. Energy, operation and maintenance costs are kept to a minimum when the system is triggered to purge and bring in fresh air only when needed.

Installing the CGAS Detector in occupied spaces allows you peace of mind knowing that harmful contaminants are being monitored and the indoor air quality kept at a healthy and comfortable level.



## Applications

- Hotels
- Hospitals
- Office Buildings
- Schools / Universities
- Theaters / Auditoriums
- Apartment Buildings
- Retirement Homes
- and many more

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



## Designed for use in publicly occupied spaces where:

- Integrated demand controlled ventilation (DCV) is used for air quality and energy savings.
- Continuous monitoring of refrigerants in high-efficiency, high volume refrigerant cooling and heating systems (VRF) are used to keep the indoor environment comfortable. Ideal for both vertical terminal air conditioner (VTAC) systems and packaged terminal air conditioner applications.

## Features

- One 4-20 mA analog output or user configurable in the field Modbus® RTU RS-485 or BACnet® MS/TPRS-485 digital output signal to aBAS or DDC
- Easy Plug & Play Smart sensor replacement, pre-calibrated ready to install
- User configurable particulate sensor settings of 1PM, 2.5 PM or 10PM
- Unobtrusive, stylish design
- USB port for firmware upgrades
- CSA, UL, FCC, Listed by BTL



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

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