



DISCOVER

NH₃

Refrigerants

Refrigerants

NH₃

CO₂

Flammables

Flammables

CO₂

A UNIQUE DEVICE

A flexible multi-output detector with unique features and performances capable to detect the most requested gases in the market.

WHO WE ARE

GVZ Components is a leading supplier for EMEA sensors' market with more than 40 years experience, providing the industry with gas, temperature and pressure sensors, oxygen, hydrogen, particle, radon, gamma and X-ray sensors, contactors, high voltage relays, fuses, pressure and temperature switches, blind spot monitoring systems for heavy duty vehicles, position sensors, encoders and more.



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for Refrigerant and Flammable Gas Leakage Detection



GVZ DETECTOR PLATFORM

The MLD - **Molecular Leakage Detector** - series is our base platform for developing reliable and durable fixed gas detectors for professional use in industry leading applications such as HVAC-R, Oil&Gas and Fuel Cell.

We tested and selected the best in class sensing technologies to offer easy to install solutions specifically tailored to target gas leakage in accordance with the latest regulations.

Modbus communication as well as alarm triggers via relays are the basic output of the MLD platform. Analogue output in current and voltage are also included in the unit.

MLD detector complies to IEC60335-2-40 standards and is certified ATEX zone 2 as intrinsically safe device.



RELIABLE
LONG LIFE
NO CALIBRATION



MAIN FEATURES

- Available with 3 different sensing technologies inside: MPS, MOS, NDIR
- Multiple output: digital, analog & relays
- Full environmental compensation
- Poisoning resistant
- No calibration needed over life
- Autocalibration feature (NDIR)
- Operating life: > 15 years



REFRIGERANTS A1



- Available for R404A, R407C
- Coming soon (2024): R410A
- Outputs: Modbus, 2 analog and 2 relays
- Sensitivity 400-2500 ppm
- Working temperature -40° +75°C
- Temperature, humidity and pressure compensated
- ATEX certified and compliant with IEC60335-2-40
- Immune to poisoning
- IP65

REFRIGERANTS A2L



- Available for R32, R454B, R454C
- Coming soon (2024): R1234ze, R1234yf, R454A, R455A
- Outputs: Modbus, 2 analog and 2 relays
- Sensitivity 0-100% LEL
- Response time <30 sec.
- ATEX certified and compliant with IEC60335-2-40
- Immune to poisoning
- IP65

REFRIGERANTS A3



- Available for R290, R600, R600a, R170
- Outputs: Modbus, 2 analog and 2 relays
- Sensitivity 0-100% LEL
- Working temperature -40° +75°C
- Temperature, humidity and pressure compensated
- ATEX certified and compliant with IEC60335-2-40
- IP65

REFRIGERANTS

FLAMMABLES

CO₂ CARBON DIOXIDE

NH₃ AMMONIA

Applications



REFRIGERATION



OIL&GAS



HVAC

METHANE



- CH₄ gas detector
- Outputs: Modbus, 2 analog and 2 relays
- Sensitivity 0-100% LEL
- Working temperature -40° +75°C
- Temperature, humidity and pressure compensated
- ATEX certified
- Immune to poisoning
- IP65

CARBON DIOXIDE



- CO₂ gas detector (available 2024)
- Solid State LED NDIR technology
- Outputs: Modbus and 2 relays
- Sensitivity 0-5%, 0-20%, 0-60%
- Response time <30 sec.
- Sensor life span >15 years
- Working temperature -25° +55°C
- Vibration and shock resistant
- ATEX certified and compliant to IEC 60335-2-40
- IP65

AMMONIA



- NH₃ gas detector (available 2024)
- Outputs: Modbus, 2 analog and 2 relays
- Sensitivity 0-100% LEL
- Response time <20 sec.
- Working temperature -40° +75°C
- ATEX certified and compliant with IEC60335-2-40
- Immune to poisoning
- IP65